MULTI FUNCTIONAL USB SERVER

LN-308/309, WL-203

Full manual

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2. Introduction

2.1 Thank you

Thank you for buying the Sitecom Multi Functional USB Server WL-203. With this product you will be able to connect your AIO/MFP (All-In-One/Multifunction Peripheral), printers, USB mass storages (hard drives, flash drives, and memory card readers), and scanners, to your network, allowing all network users access to these shared USB devices.

2.2 About this Manual

This manual provides introductory information as well as detailed instructions on how to set up and manage WL-203 in various network environments.

Note :

To reload the Factory Parameters, you can reset this Server back to Factory Defaults, which will restore most of the settings. For details, please refer to chapter 10; Restore Factory Defaults.

Note :

Should you require any technical assistance, please contact your product reseller. Or you can visit our website at http://www.sitecom.com for latest product information. This document is subject to changes without prior notice.

3. Product Overview

3.1 Package Contents

- The MFP Server (WL-203)
- CD-Rom (Control Center software, User's Manual and Quick Installation Guide)
- Power Adapter
- Warranty Card
- Quick Installation Guide (printed manual)

3.2 Physical Description

1. **Power Adaptor Connector:** 12V/1A adaptor
2. **Init Button**: restore the parameters to the default values
3. **Ethernet Connector:** a twisted pair category 5 cable
4. **USB Host Port:** USB 1.1/2.0 low, full, and Hi-Speed compliant
5. **Indicators**

3.2.1 LED Indicators

Indicators	Color/Behavior	Description
Power	Green	Power On
	Not lit	Power off/System error
Link	Green	Network connected
	Not Lit	No physical connection to network
Status	Green blinking	Activity on network
	Not lit	No activity on network
USB	Green	USB device connected
	Green blinking	Connected USB device error
	Not lit	No physical connection to USB device

3.3 Features and Benefits

This Server provides the following features and benefits:

- Reliability: The Server provides high performance and reliability combined with low power consumption.
- Flexibility: The Server supports print/File/Scan sharing in all major computer systems and environments.
- Easy to Install: The Server installs, operates, and is managed in a reliable and easy fashion.
- Security: You can assign an administrator login name and password to restrict access.
- Monitoring: The Server’s web pages and user software allow you to continuously monitor the status of connected USB devices.
- Future Proof: The firmware stored in the Server’s Flash memory can be upgraded over the network. This allows you to quickly update and enhance its operational features when new Server software becomes available.

4. Basic Installation & Configuration

4.1 Connecting the Hardware

- Make sure that your USB devices are switched off and that the Server's Power Adapter is disconnected.
- Connect the USB devices to the USB port with the USB cables.
- Connect the MFP Server to your modem or wireless router with an Ethernet cable.
- Turn on the USB device and make sure it's ready to use.
- Connect the Power Adapter to the MFP Server. The power indicator will light up and the indicator will flash. When the Link indicator lights up, the Server is correctly connected to the network. When the USB indicator stops flashing, the Server is ready to use.

4.2 Assigning an IP Address to the Server

Note :

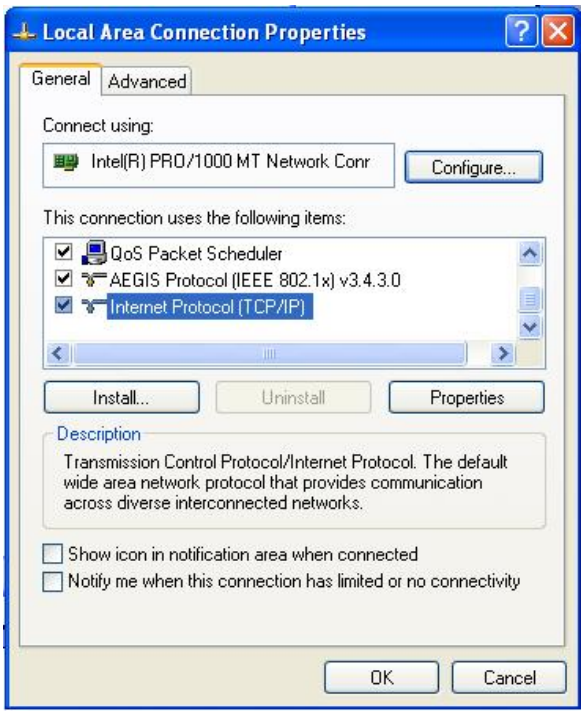
Before starting to search the MFP server, please ensure all Firewall applications are turned off (or unblock the Control center software in your Firewall settings.

4.2.1 Preliminary

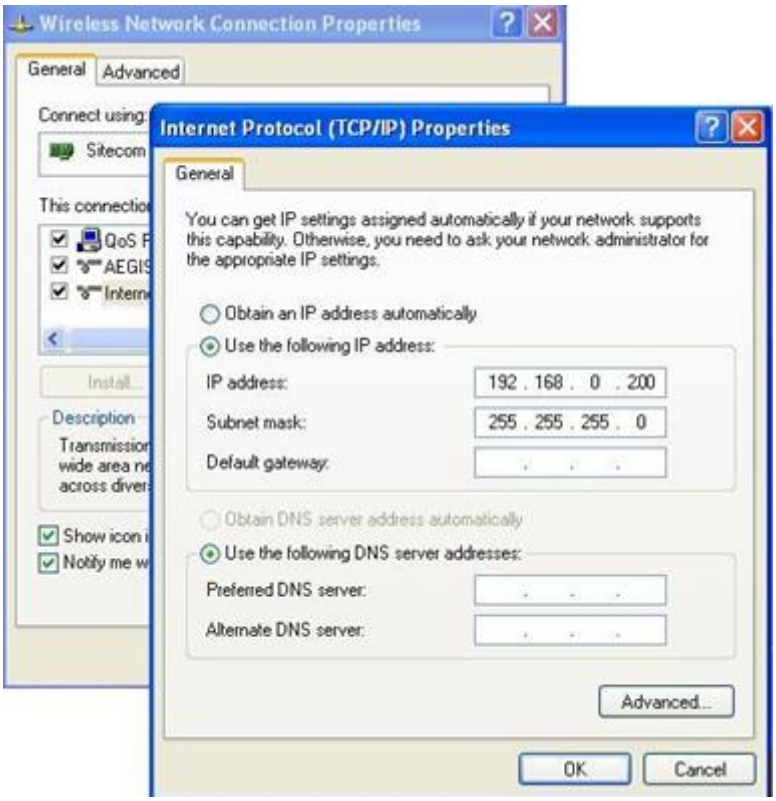
- If you have a DHCP server in your network, your MFP Server will receive an IP address automatically. The IP address will then appear in the *Control Center* or on the configuration report that you printed earlier. If your DHCP server does not give an IP address to the MFP Server, the MFP Server will use the Factory IP address: **192.168.0.220**.
- If you are not working in a DHCP network, you need to manually set the Server's IP address.
- To do this, please connect the MFP server directly to your PC. Change the IP settings on your computer to match the range of the MFP server Factory IP address (**192.168.0.220**). For example, temporarily change the IP-address on your computer to '192.168.0.200'.

4.2.2 Manual Setting for Server's IP address

- Press **Start** -> **Control Panel.** Then select "**Network and Internet Connections**" and click "**Network Connections**".
- Double click the "Network Connection" icon. Under the "This connection uses the following items", select the "**Internet Protocol (TCP/IP)**". And then click "**Properties**" button.



- Select "**Use the following IP address**". And then put the factory default IP <192.168.0.200> and Subnet mask <255.255.255.0>. Then click "**OK**" to finish the setting.

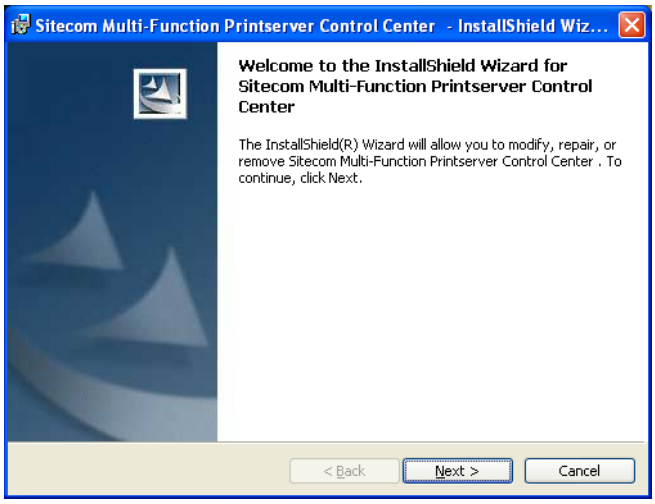

Wireless Network Connection Properties
General
Advanced
Internet Protocol (TCP/IP) Properties
General
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.
Obtain an IP address automatically
Use the following IP address:
IP address:
192 . 168 . 0 . 200
Subnet mask:
255 . 255 . 255 . 0
Default gateway:
Obtain DNS server address automatically
Use the following DNS server addresses:
Preferred DNS server:
Alternate DNS server:
Advanced...
OK
Cancel

- Then Sitecom MFP can directly be found in the Control Center.

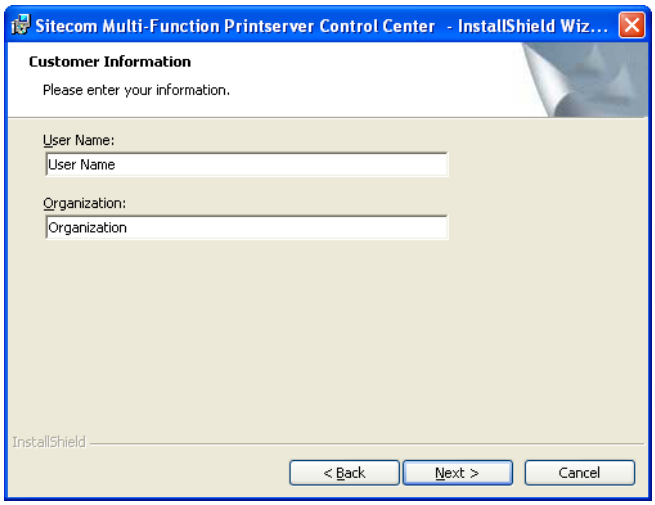
4.2.3 Installing Control Center software

- Install the WL-203 Control Center by running the Autorun CD.

- Click **Install Control Center** to start the installation.


Sitecom Multi-Function Printserver Control Center - InstallShield Wiz...
Welcome to the InstallShield Wizard for Sitecom Multi-Function Printserver Control Center
The InstallShield(R) Wizard will allow you to modify, repair, or remove Sitecom Multi-Function Printserver Control Center . To continue, click Next.
< Back
Next >
Cancel

- Click **Next** to start.



- Enter the **User Name** & **Company Name**. And then click **Next.**

- Then click **Next**, until you click the **Finish** to complete the installation.

4.2.4 Setting the IP Address Using the Control Center

- Start the Control Center. The Main window will open. (Detailed information about the server and the printer will be shown when the 'Server Information' button is pressed.)

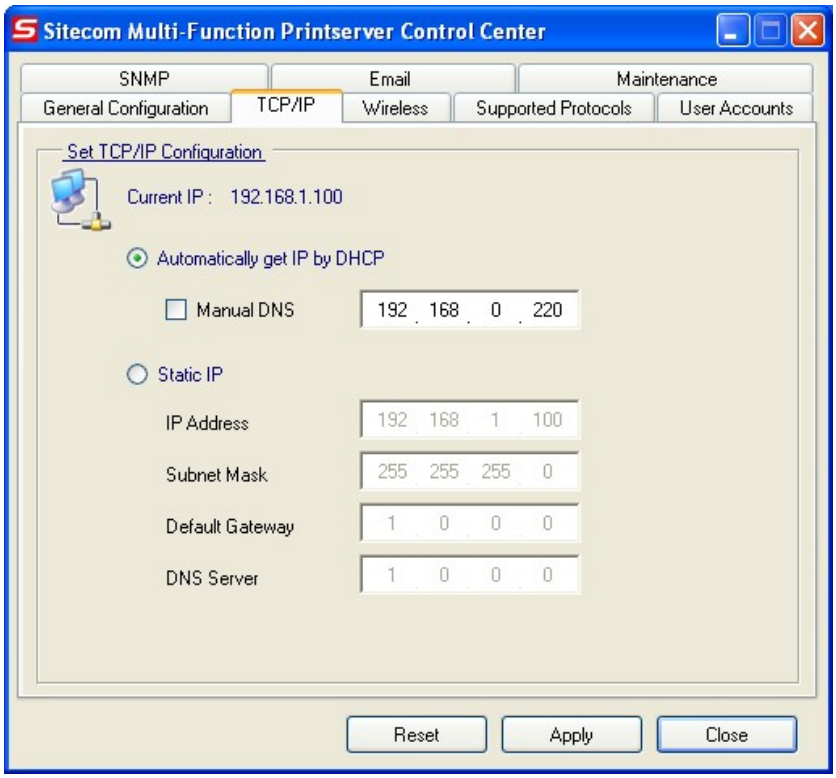
Note :

If the Control center cannot find the MFP server, please check and make sure Firewall and Anti Virus software is "Off". Then try searching the MFP server again by pressing the "Refresh Server List" icon.

- If the tool finds multiple Servers in your local area network, then you have to select one Server from the Server List.

- Double click the highlight list and enter the Server's administrator (default: ***admin***) and password (default: ***admin***).

- After you have logged in successfully, select TCP/IP from the Server's menu. The IP Address Setting dialog is shown.



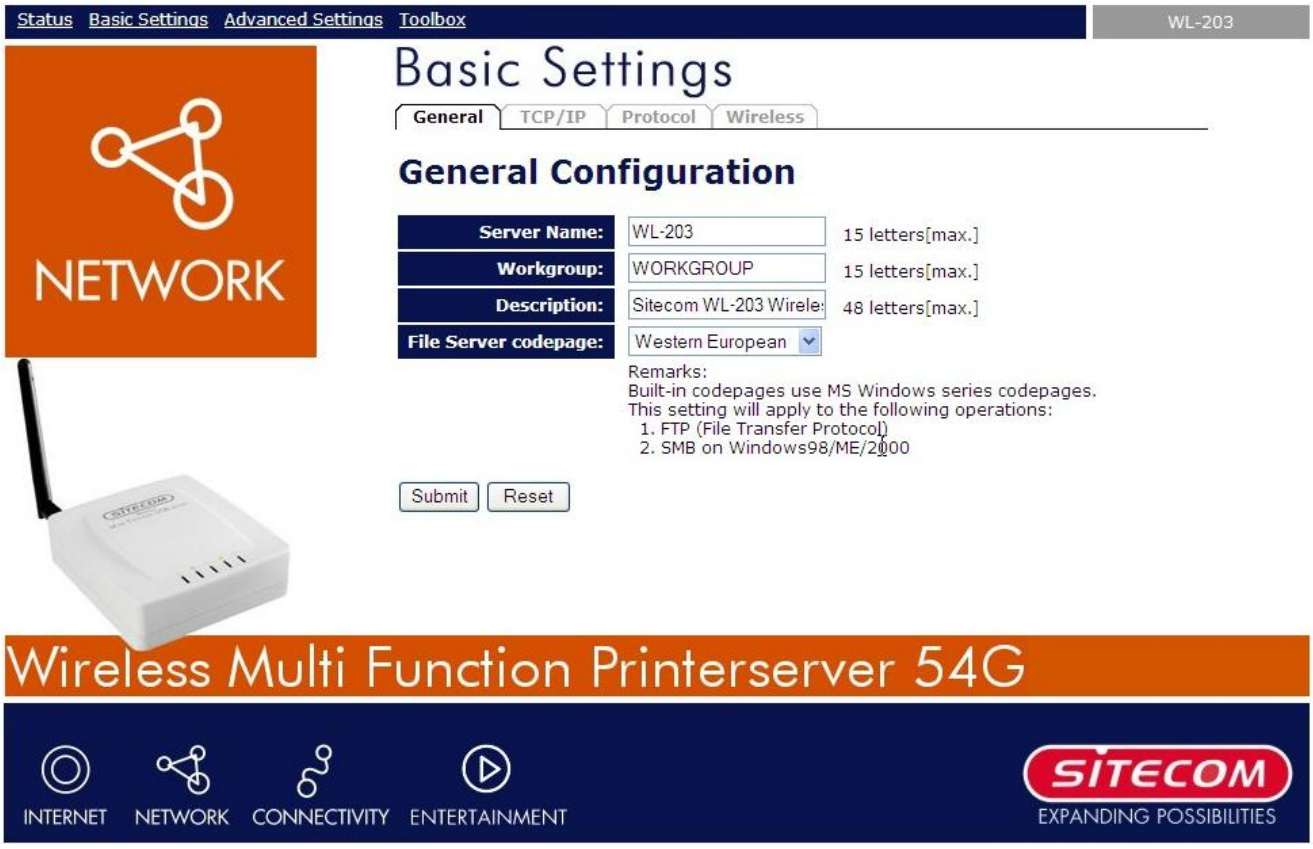
- Click the button corresponding to your choice of IP setting method (static or dynamic using DHCP). When assigning a static IP address you also have to define Subnet Mask and Default Gateway. If you choose **Automatically get IP by DHCP**, you can use desired DNS by clicking the **Manual DNS** button and manually assigning a DNS.
- Click **Apply** to save your settings. The Server will now reboot.
- You have now finished the procedure of setting up the IP address.

4.2.5 Setting the IP Address Using the Server's Web Pages

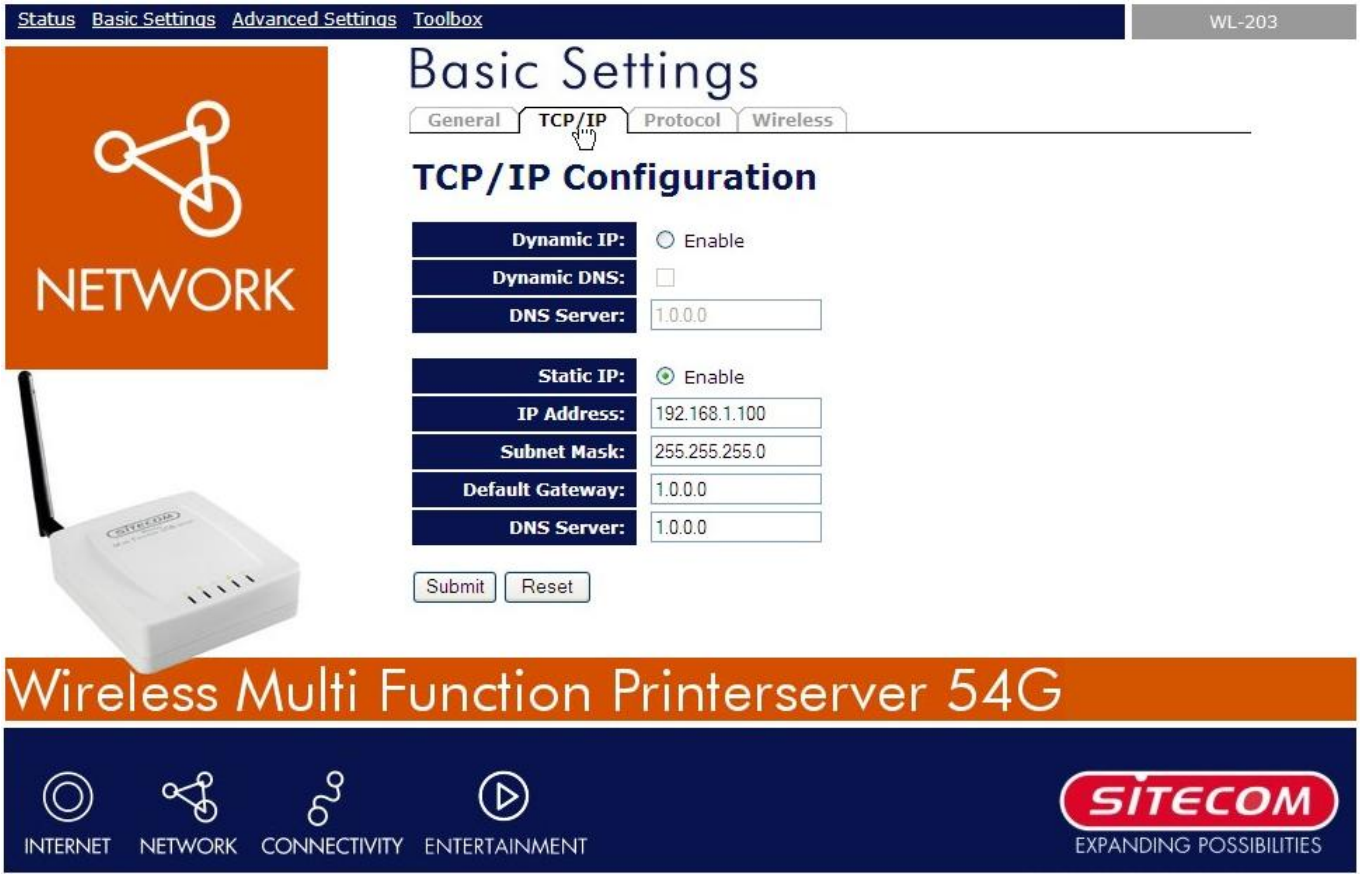
- Please press the "Goto Homepage" icon. The IE Browser will be opened.

- Please enter the Server's administrator (default: *admin*) and password (default: *admin*).

- A web page "System Status" is shown. Please click **Basic Settings.**



- And then click the **TCP/IP** setting.



- Select the button which corresponds with your choice of IP settings (static or dynamic using DHCP). When assigning a static IP address you also have to define Subnet Mask and Default Gateway.

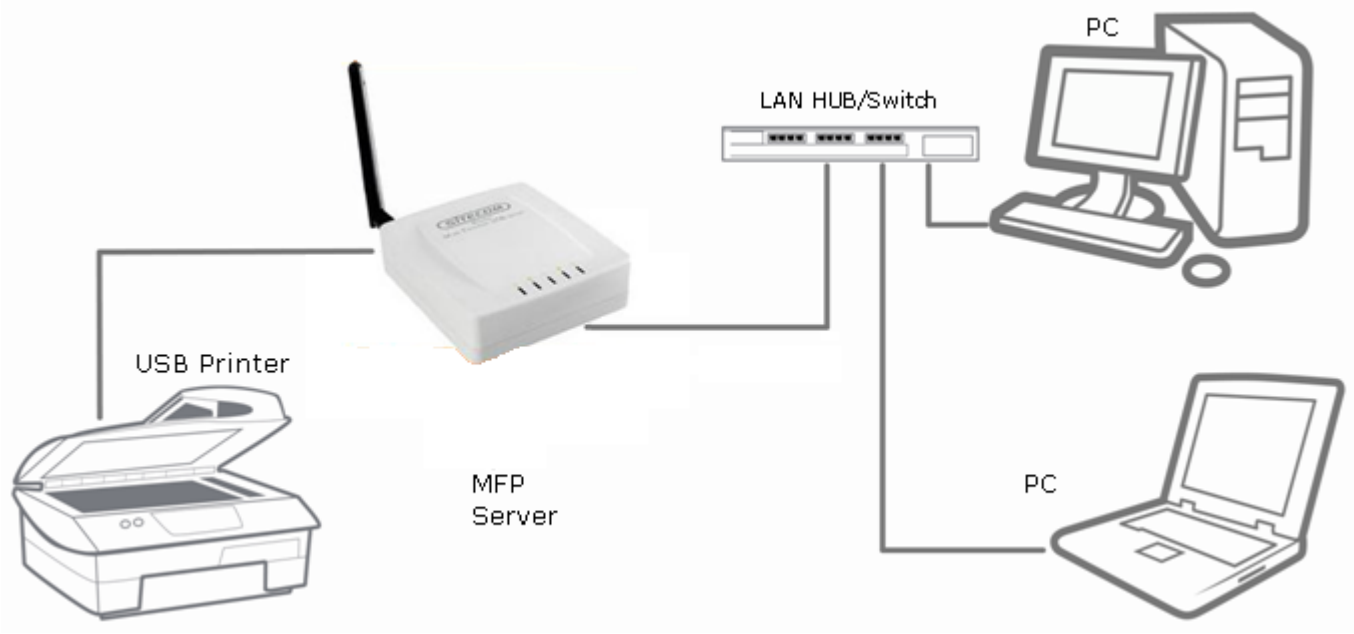
- Click **Submit** to save your settings. The Server will then reboot. You have now finished the procedure of setting up the IP address.

5. Print Server in Windows

5.1 Connecting the Server

To configure your Server correctly, you should know which type of network topology your Server connects to.

5.1.1 The Server and Windows PC on LAN



5.1.2 Setting up Local Windows Printer Driver

You are advised to install your Windows printer driver in advance. For most printers, you can install the printer drivers with the following procedure:

- Click **Start**, click **Control Panel**, click **Printers and Other Hardware**, and then click **Printers and Faxes**.
- Double click **Add Printer** to start the Add Printer Wizard, and then click **Next**.
- Click **Local printer**, clear the **Automatically detect and install my Plug-n-Play printer** check box to avoid having to wait for the completion of another printer search, and then click **Next**. If you leave this option selected, Windows will attempt to find the printer itself and figure out what kind it is. If Windows does not find the printer, the wizard will continue as described in this task.
- Select a Windows driver for your printer. Click **Next.**
- Choose whether you want to share the printer with other network users. Do you want to print a test page? Select the appropriate radio button and click **Next** and **Finish**.

5.1.3 Adding Network Printers in Windows

Follow the instructions below to use the standard Windows Add Printer Wizard and the Control Center for adding a network printer in Windows 2000 and XP.

Note :

Before adding a network printer, you are advised to install the local Windows printer driver in advance.

Before using network printer, you have to turn on "Use Printer Online" in installed network printer driver and then you can use the printer.

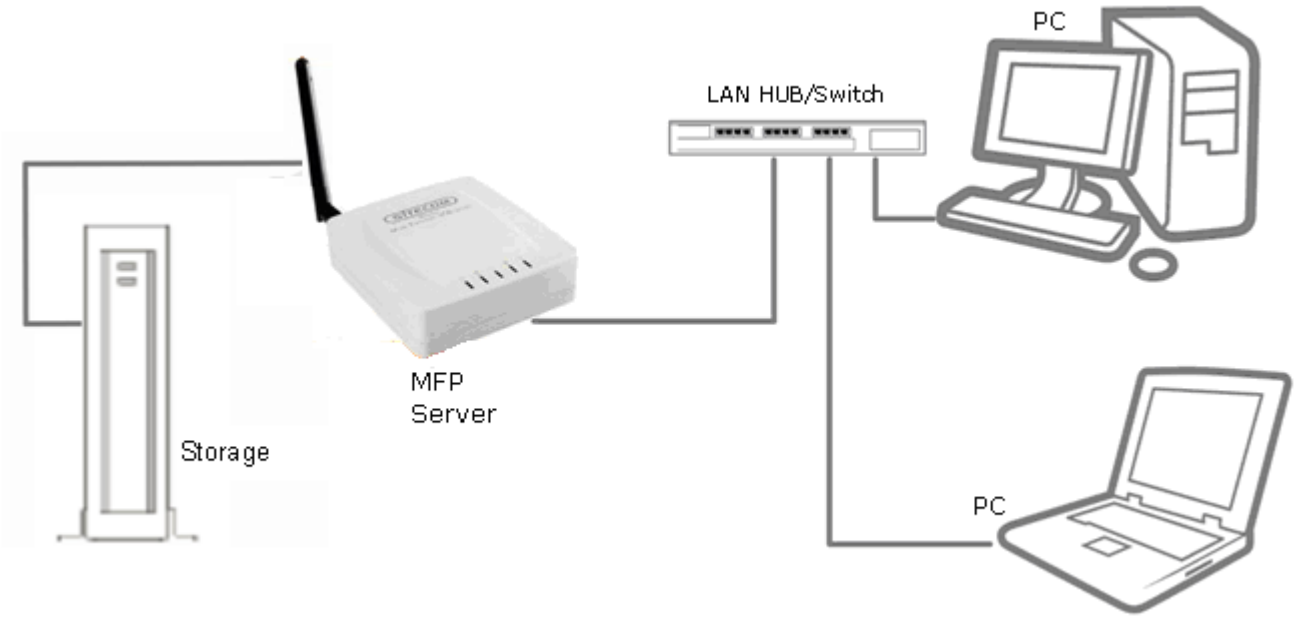
6. File Server

The File Server function of the MFP Server which allows USB storage devices to be shared across a network by using SMB: NetBIOS over TCP/IP and FTP protocol.

6.1 Preliminary

- This product supports FAT12/16/32 and NTFS file system. However, NTFS is only supported in NetUSB mode. Please refer to the Storage Access Mode.
- Sitecom is not responsible for the loss or corruption of data in memory devices, including hard disks; Sitecom is not responsible for leaking, manipulation, loss, or corruption of data (after unauthorized access) on memory devices connected to the Server.
- In order to use the USB Mass Storage device connected to the Server, the SMB protocol or FTP protocol must be set up.
- This product does not support magnetic optical drive devices such as a CD-/DVD-ROM.
- This product allows to share a USB storage device over the network.
- This product does not support USB devices through a USB hub.

6.2 Connecting USB Mass Storage to the Server



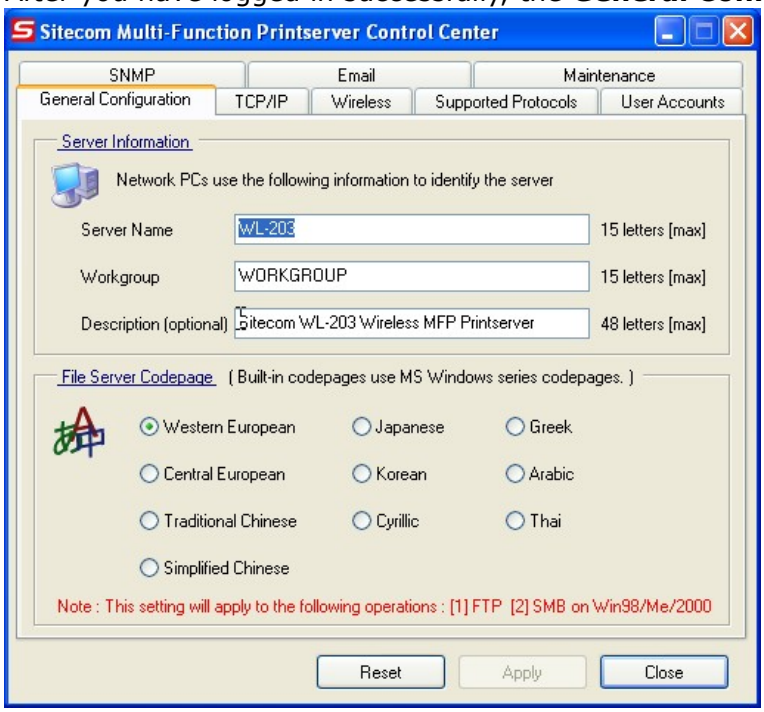
Please check www.sitecom.com for up to date drivers & utilities, manuals and support

6.3 Supported Codepages

The Server supports Windows codepages. If users want to communicate with the Server using an FTP client tool or SMB on Windows 2000, they have to set their Server codepage as the codepage that their Windows PC is using.

6.3.1 Configuring the Server's Codepages

- Open the Control Center.
- Select the MFP Server from the Server List.
- Double click the highlighted option in the list or click **Configure Server**, and enter the Server's interface using administrator username (default: *admin*) and password (default: *admin*).
- After you have logged in successfully, the **General Configuration** dialog appears.



- Select your codepage from the **File Server Codepage** box and click **Apply**.

6.4 Adding Your USB Mass Storage devices with Security to your Network

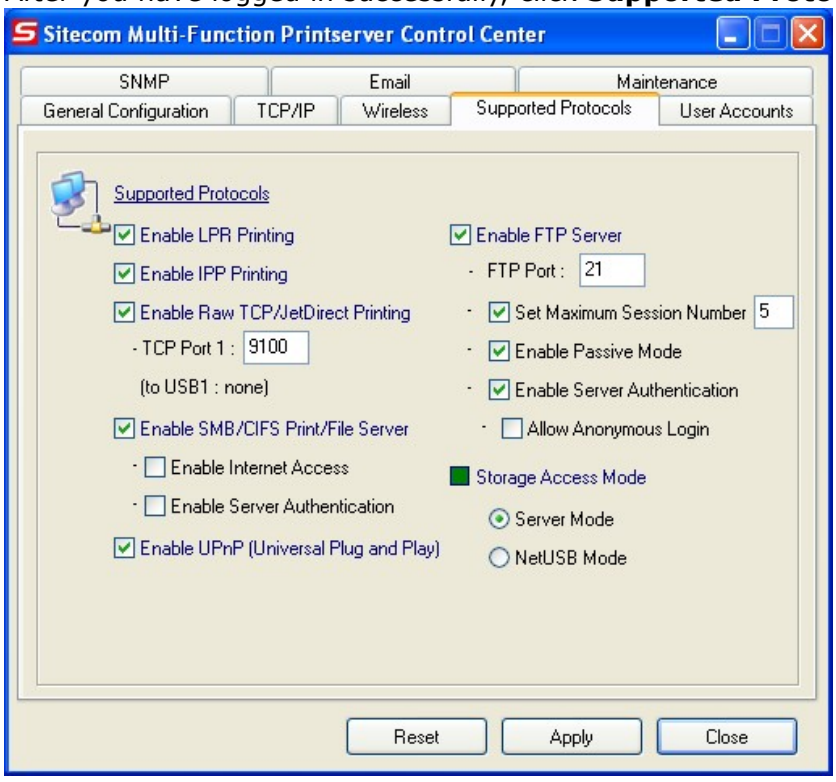
You can use the following protocols to share your USB Mass Storages with user level security in network:

- SMB/CIFS: NetBIOS over TCP/IP
- FTP

The protocols are shown in the **Supported Protocols** box of the Control Center or the Server's web pages.

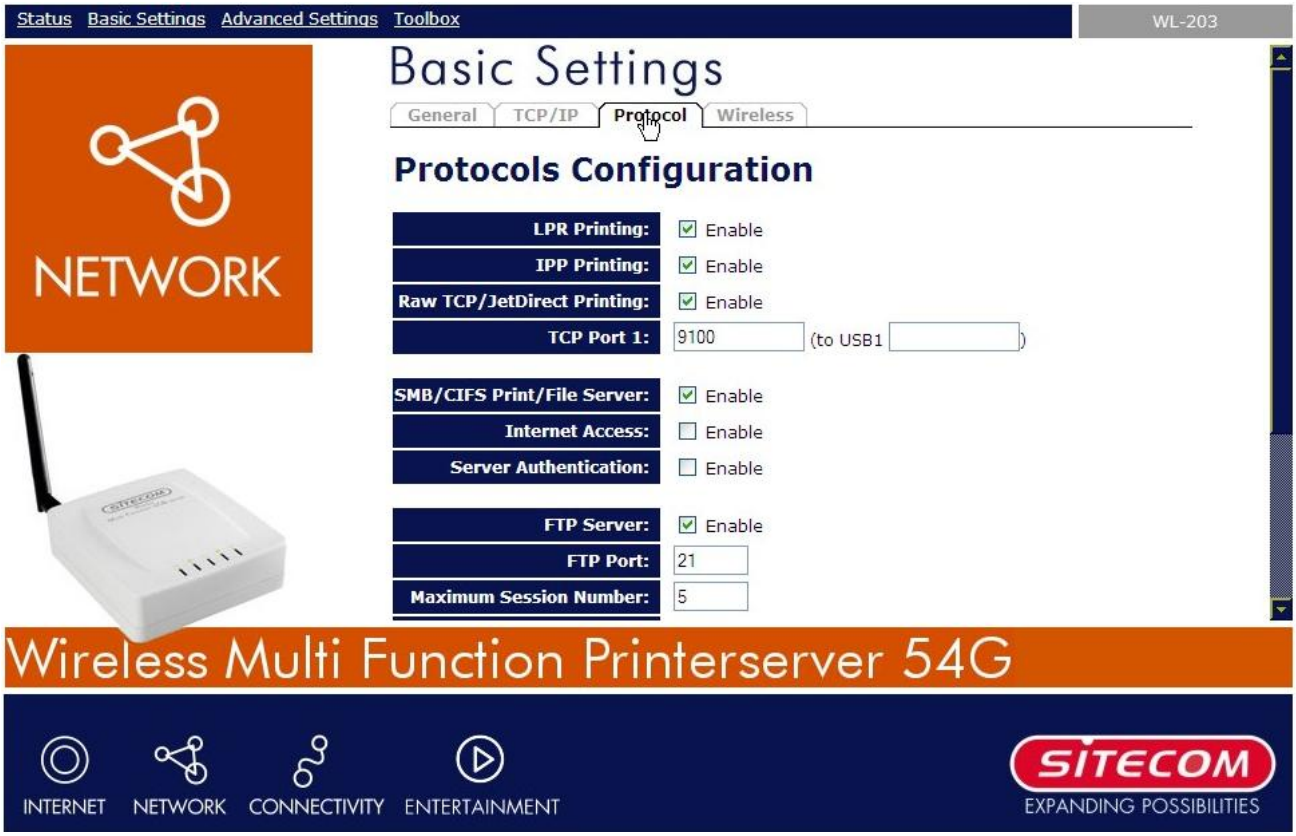
6.4.1 Setting up File Server Using the Control Center

- Open the Control Center
- Select the MFP Server from the Server List.
- Double click the highlighted option in the list or click **Configure Server**, and enter the Server's interface using administrator username (default: *admin*) and password (default: *admin*).
- After you have logged in successfully, click **Supported Protocols**.



6.4.2 Setting up File Server Using Web Pages

- Open the Control Center
- Select the MFP Server from the Server List.
- Click **Goto Homepage**, and enter the Server's interface using the administrator username (default: *admin*) and password (default: *admin*).
- After you have logged in successfully, Select **Basic Settings**.
- And click **Protocol.**



6.4.3 Set up File Server Configuration

6.4.3.1 Set SMB/CIFS Print/File Server

- **Enable SMB/CIFS Print/File Server**: select the item, if you want to support SMB/CIFS print/File server.
- **Enable Internet Access**: clear the item, if you do not allow that users can access your SMB/CIFS server via Internet. If you select the item, you allow Internet users can access your storage using the SMB/CIFS protocol.
- **Enable Server Authentication:** select the item, if you want to share your storage or printer with user level security which requires user name and password to login. If you clear the item, your storage will be shared without security.

6.4.3.2 Set FTP Server

- **Enable FTP Server:** select the item, if you want to support FTP server.
- **FTP port**: enter the desired FTP port. The default value is 21.
- **Maximum Session Number:** select the item and fill in desired number.
- **Enable Passive Mode:** select the item, if you want to allow your FTP server to accept the passive mode command.
- **Enable Server Authentication:** select the item, if you want to share your storage with user level security which requires user name and password to login. If you clear the item,

your storage will be shared without security.

- **Allow Anonymous Login:** select the item, if you want to allow the user "anonymous" to login to your FTP server with read-only permission and the Server will not check the password. If you clear the item, your FTP server will not support anonymous login function.

6.4.3.3 Storage Access Mode:

- To use FTP and SMB/CIFS to access storage, please set the storage access mode to the server mode. For the NetUSB mode, please refer to < 7.3.5 NetUSB mode for USB storage >.

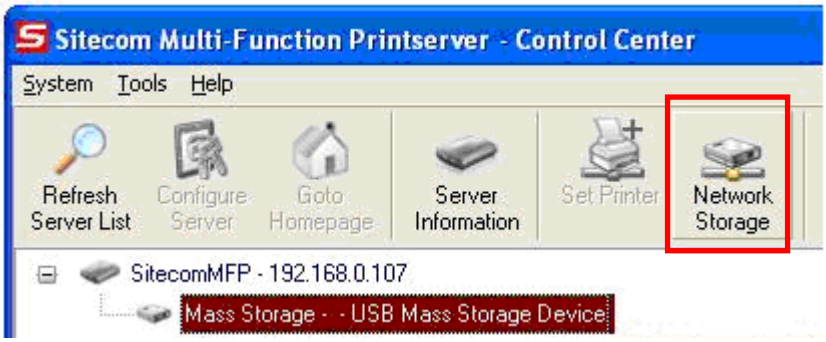
6.5 Using Shared Storages by SMB/CIFS Method for Windows

- Connect a USB storage device to this product.
- Select **My Network Places**
- Click **View workgroup computers**

- Enter the MPF server by double clicking on the **WL-203(Sitecommfp)** icon.
- Then you can enter the USB storage device.
- If you cannot find Workgroup name of the Server in Microsoft Windows Network, you can press **Search.** And then enter the Host Name of the MFP Server (For example, default Host Name *"sitecommfp" or the Server's IP address*) to find it.
- Double click this Host Name icon.
- The shared folders will be listed as USB1_DyPz, where Dy represents the y-th disk and Pz represents the z-th partition.
- Perform Open, Paste, Remove or Copy the files to the shared folders.

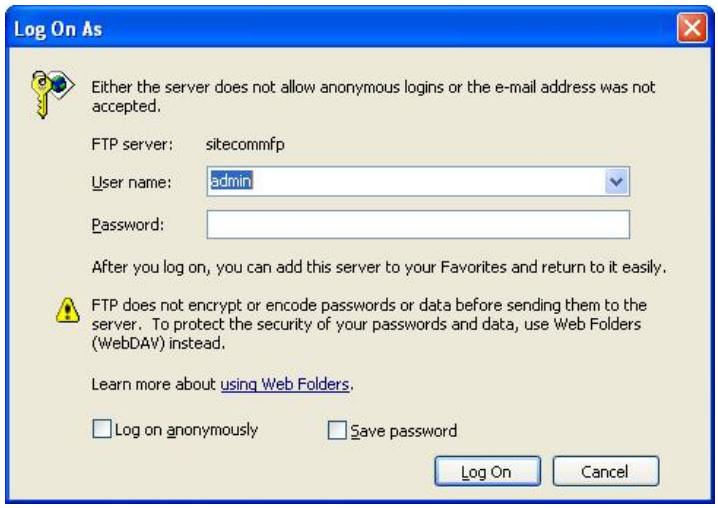
Note :

Another way to use shared storages by SMB/CIFS method : In Control Center, click the "Network Storage" button.



6.6 Using Shared Storage by FTP Methods for Windows

- Open Microsoft Internet Explorer.
- In the **Web Address List**, enter the command: "ftp://Server's *Host Name*" or "ftp://*Server's IP address"*. If you have changed the default FTP port : 21 to the new value, you have to add the new port number behind the command (e.g. *"ftp://Server's Host Name: ftp port" or* "ftp://Server's *IP address: ftp port*").
- Enter the Server's administrator username (default: *admin*) and password (default: *admin*).


Log On As
Either the server does not allow anonymous logins or the e-mail address was not accepted.
FTP server: sitecommfp
User name: admin
Password:
After you log on, you can add this server to your Favorites and return to it easily.
FTP does not encrypt or encode passwords or data before sending them to the server. To protect the security of your passwords and data, use Web Folders (WebDAV) instead.
Learn more about using Web Folders.
Log on anonymously
Save password
Log On
Cancel

- If you set **Enable Server Authentication in FTP server protocol settings** you have to enter a user name and password to login to the Server; if you set **Allow Anonymous Login**, you can use the user name "anonymous" to login with Read-only permissions. If you clear the Server authentication, you do not need a username or password to login to the Server. You can add a user name and password in the **User Account** box in the Control Center or the Server's Web pages.
- The shared folders will be listed in Internet Explorer.
- Here you can Paste, Remove or Copy the files from/to the shared folders.

7. NetUSB Mode

7.1 Introduction

The Sitecom WL-203 has a totally different technology "NetUSB", to deal with printers and scanners (MFPs).

- For printers, some special kinds of printers, such as GDI printers or host-based printers, can not work well with traditional print server technology. Users should use the NetUSB mode to deal with these kinds of printers.
- For MFPs or scanners, the NetUSB mode is able to support almost all models from all MFP/scanner vendors.
- For USB mass storage, such as USB hard drives and flash drives and card readers on some kinds of MFPs, users can also use the NetUSB mode to access them in single-user mode. By this way, NTFS file system is supported for read/write.

Note :

The default storage access mode is server mode.

7.2 Connect & Disconnect

"NetUSB" allows you to use USB printers or USB storage devices directly, even when they're actually connected to the Sitecom WL-203 USB MFP server.

The "connect" operation is a software operation that simulates an actual USB device plug-in. Therefore, when you do a "connect" operation in the Control Center, PC can detect a USB device's plug-in, although actually you do not plug in any USB device to your PC. Similarly, the "disconnect" operation is a software operation that simulates the disconnection of the USB device.

Note :

If a USB device is "connected" by a PC, we say that PC has the ownership of the USB device. Only one PC can get the ownership of a USB device at the same time.

7.3 How to Use

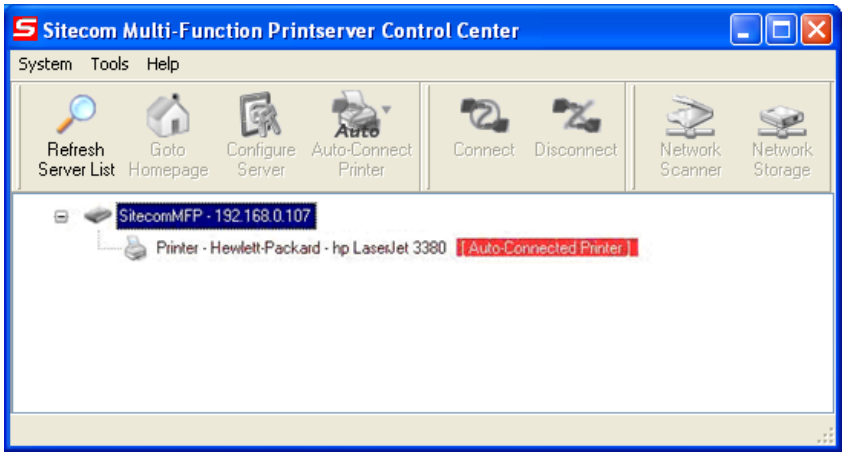
7.3.1 Remote Installation

Before using the NetUSB technology, you must first make sure that your PC can access the Sitecom USB MFP server via TCP/IP. The simplest way to do this is using "Control Center" to search for the Sitecom USB MFP server on the network and change its IP address to be the same subnet as your PC. If the MFP server and your PC are not in the same TCP/IP subnet, Control Center will show the MFP server in **green**, as the following figure.

You must change the IP address of the MFP server (or use DHCP) so that the MFP server and your PC are in the same subnet. Control Center will show these MFP servers in **blue**, meaning you can safely access these MFP servers by the NetUSB technology

The steps to do remote installation for USB devices, like MFPs:

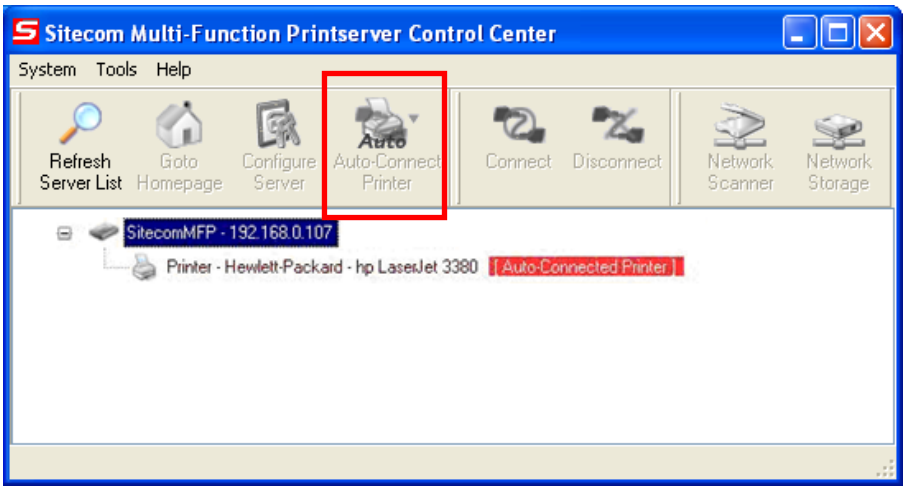
- Turn on Sitecom WL-203 and the USB device.
- Connect the USB device to Sitecom WL-203. The LED of the USB port will light.
- Run the Control Center. In the "USB MFP Server List" window, you can see the host names and IP addresses all of the Sitecom WL-203 servers (in blue) on the network, as shown below.



- Click the server. Then all USB devices attached to the server will be shown.

- Please follow the user manual of the USB device to install its driver. For example, you may put the driver CD of the USB device in the CDROM player to install the driver.

- When you are asked to plug in the USB device into PC's USB port, click the desired USB device in the Control Center and then click the "Auto-Connect Printer" button to do the connect operation and get the ownership of the USB device. The computer name of the device owner will be shown at the end of the device.



- PC will automatically detect that the USB device is plugged-in. On the right side of the Windows Task Bar, you can see the information of the new device. Continue to follow the user manual of the USB device to do the rest jobs of installation, until the driver installation has finished.

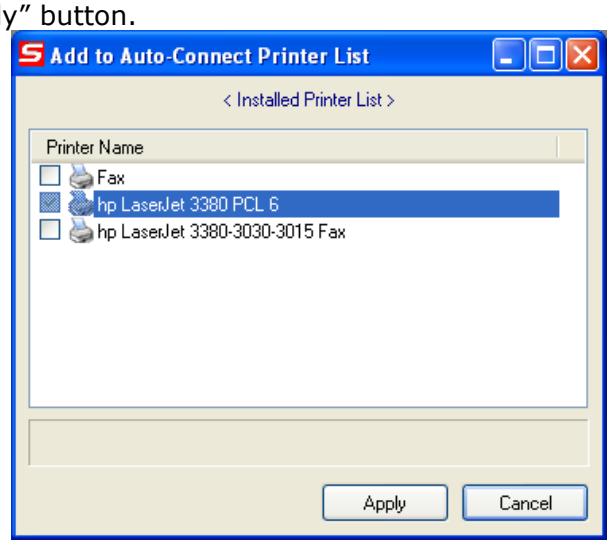
After the installation, you can see the newly created devices on the PC. If the USB device is a MFP, you can see a new printer and a new scanner from the "Control Panel".

7.3.2 NetUSB Printing using Auto-Connect Printer

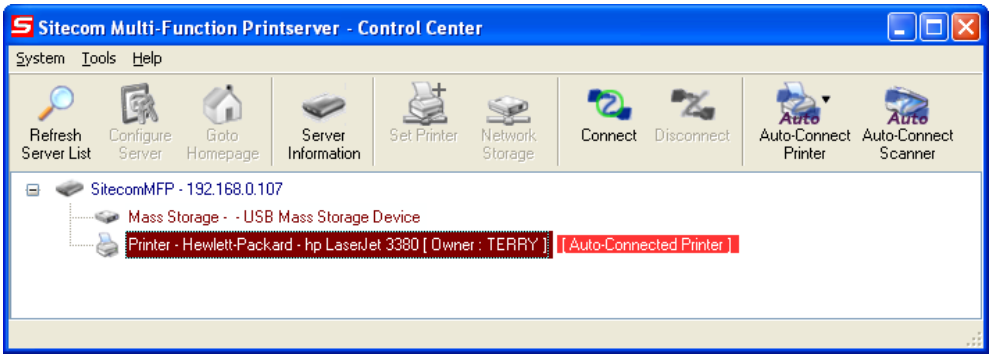
After the driver is installed, you can see a newly created printer in the Control Panel. Follow the steps below to perform NetUSB printing.

- In the Control Center, click the MFP server that has the desired printer (or MFP) attached.
- Click the desired printer (or MFP).
- Click the "Auto Connect Printer" button and choose "Set Auto-Connect Printer". The following figure will appear.

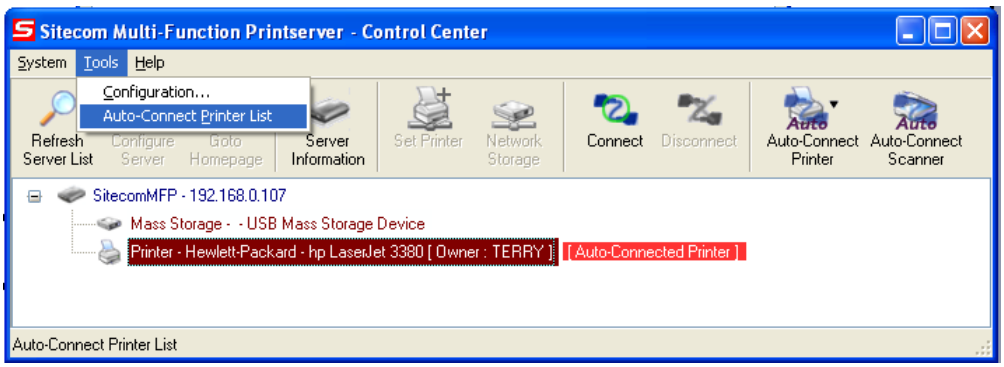
- Choose the desired printer. The desired printer must be the Windows printer (this is a logical printer) that matches the printer attached on the MFP server (this is a physical printer). Then click the "Apply" button.



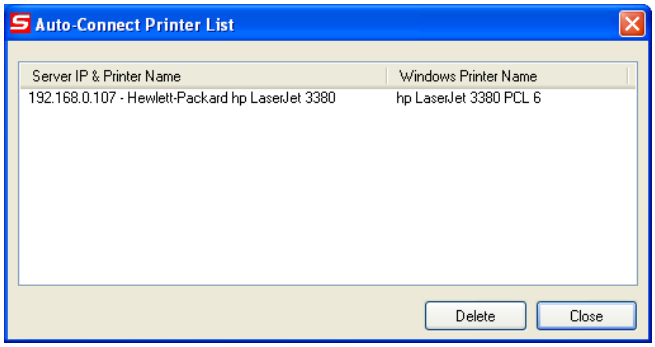
- Then, the printer will be marked as an "Auto-Connected Printer" in red.



- If you choose "Auto-Connected Printer List" in the "Tools" menu, you can see a newly created item that describes the association between the Windows printer and the physical printer on the server.



Please check www.sitecom.com for up to date drivers & utilities, manuals and support



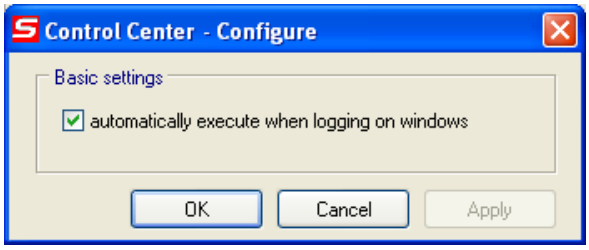
- Then try to issue a print job to the desired printer. You will see the Control Center will automatically do a connect operation and, once the print job finished, it will hold the connection. However, the connection will be released immediately when another user do the printing afterward. At the same time, the printer is automatically disconnected with your PC.

- When you do a print job again. The control center will automatically do a connecting operation on printing again. This is so-called "Auto Connect / Disconnect" operation.

Note :

Under the "Auto-Connected Printer" setting, it is **NOT necessary to manually press the "Connect" button** when printing. If you press the "Connect" button for printing, please make sure to **click "Disconnect" button after you finish the printing**. Otherwise, other users cannot print properly. It is because you are the only ownership of the connected printer.

- You can make the Control Center be run automatically after you login Windows. To do this, you choose the "Configuration" item in the "Tools" menu. The following window will appear. Click on the check box and then on the "OK" button. This feature is enabled by default.



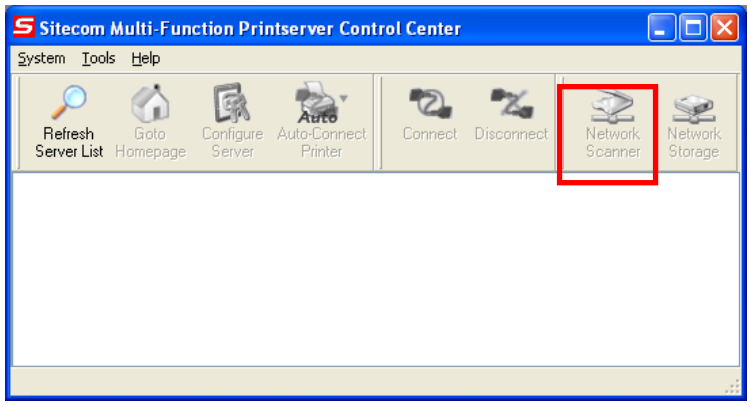
- If you would like to break the association between the Windows printer and the physical printer, just highlight the association and click the "Delete" button in the "Auto-Connected Printer List".

7.3.4 NetUSB Scanning using Network Scanning

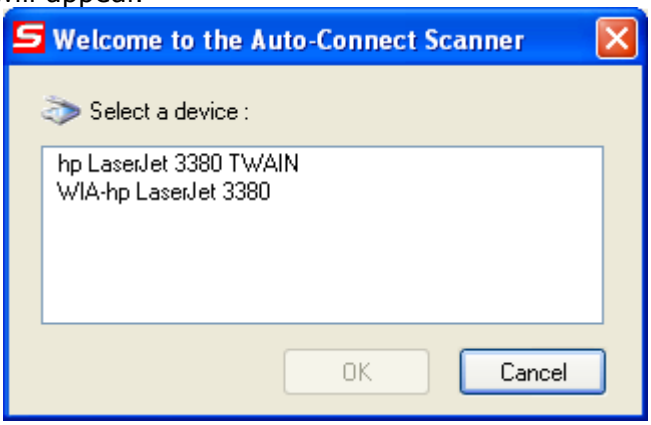
- In the Control Center, click the MFP server that has the desired MFP attached.

- Click the desired MFP.

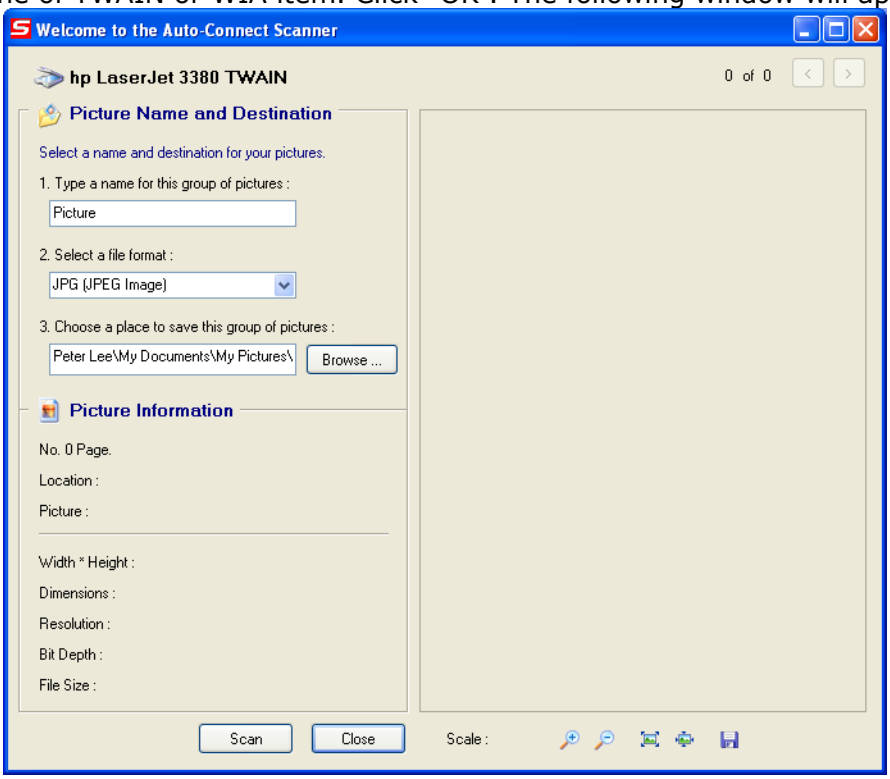
- Click the "Network Scanner" button.



- Then you can see that the Control Center will automatically do a "connect" operation. The following window will appear.



- Choose one of TWAIN or WIA item. Click "OK". The following window will appear.



- Follow the usual steps to do scanning.

7.3.5 NetUSB mode for USB Storage

Before you use NetUSB technology to access USB storage, please make sure the storage access mode is in NetUSB mode. For detail setting, please refer to <8.2.3 Supported Protocols >

- In the Control Center, click the MFP server that has the desired USB storage device attached.
- Click the desired USB storage device.

- Click the "Connect" button to manually connect the USB storage device.
- Now your PC will have a new disk. For example, if you connect a flash drive, your PC will have a new "removable disk". You can see the storage icon in the system tray.

- Just use the new disk as a normal drive.
- After you finish the disk operations, click the storage icon in the system tray and choose "Safely remove USB Mass Storage Device".

- In the Control Center, click the "Disconnect" button to disconnect the USB storage device.
- Please note that FAT32 and NTFS file system can be fully supported.

Note :

Only one PC can get the ownership of the same USB device at the same time. In other words, the PC connects the USB device directly & independently, other PCs can not "access" this USB device. Until the USB device is disconnected by the user.

Note :

For USB storage, although NTFS can be supported by the NetUSB technology, it can not be shared among network users.

8. Using the Control Center

8.1 Using Tools of Control Center

You can use the following tools to help you use the server:

- ***Refresh Server List***: renew to auto search the existing servers on the network.
- ***Configure Server*****:** configure the highlighted MFP server.
- ***Goto Homepage*****:** go to the web pages of the highlighted MFP server.
- ***Auto-Connect Printer*****:** perform set printer function of the highlighted MFP server.
- ***Connect*****:** Connect your printer, or access the network storage by SMB/CIFS method. The storage access mode must be in Server Mode.

Note :

You can also right-click the mouse button on the highlighted MFP server to get the "Configure Server", "Goto Homepage", "Set Printer", and "Network Storage" functions.

Note :

You can also double-click on the highlighted server to get the "Configure Server" function.

8.2 Setting up Server Configuration

Click the "Configure Server" button to setup the highlighted MFP server. Then type the administrator ID and password to login.

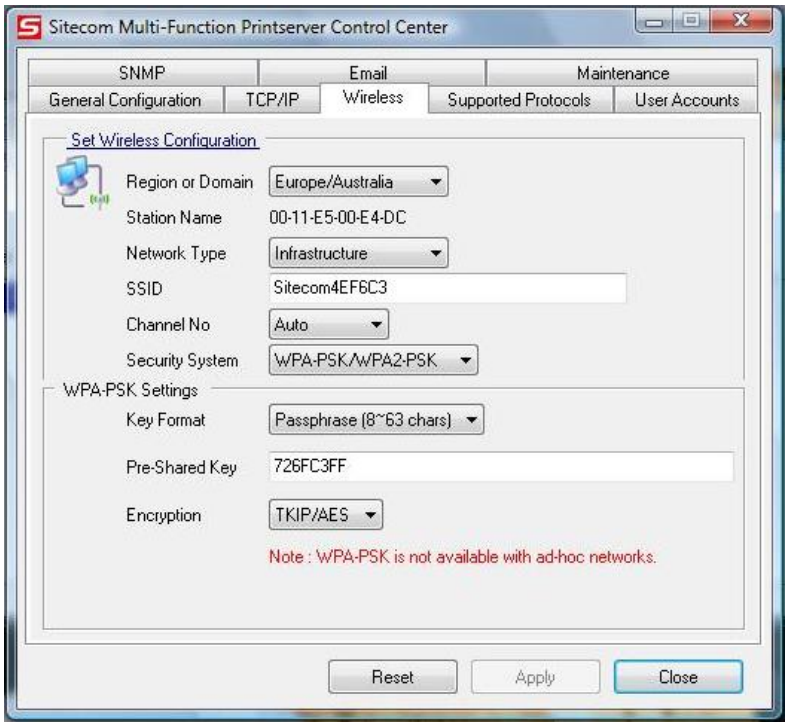
8.2.1 General Configuration

- ***Server Name****:* the name to represent the Server for using SMB protocol
- ***Workgroup****:* the name of the SMB workgroup that the Server belongs to.
- ***Description****:* optionally set to describe the Server.
- ***File Server Codepage****:* generally, the criteria of choosing codepage are based on your Windows codepage.

8.2.2 TCP/IP

To set the MFP server's TCP/IP configuration and connect TCP/IP network, please see < 4.2.4 Setting the IP address Using the Control Center > for details.

8.2.3 Wireless Configuration



- ***Region or Domain**:* Select your region to configure the available wireless channels.
- ***Station Name**:* The BSSID or MAC-Address of the Wireless Multi Function Printserver.
- ***Network Type:*** Select Infrastructure when the printserver has to connect to a router or AccessPoint, select Ad-Hoc to connect to a client computer or Peer-to-Peer network.
- ***SSID:*** Choose the SSID of your network.
- ***Channel No:*** The channel used by your network.
- ***Security System:*** Select WEP or WPA encryption for your wireless network connection.
- ***WEP/WPA-PSK Settings:*** Enter the encryption information to connect to your network.

8.2.4 Supported Protocols

- ***LPR (Line Printer Remote) Printing**:* select or clear LPR Printing support. It is enabled in Factory Default***.***
- ***IPP Printing**:* select or clear IPP Printing support. It is enabled in Factory Default.
- ***Raw TCP/ Jet Direct Printing:*** select or clear Raw TCP / jet Direct Printing support. It is enabled in Factory Default and set some parameters as below :
- ***TCP Port:*** Set TCP port for the printer on the USB1 port (default: 9100)

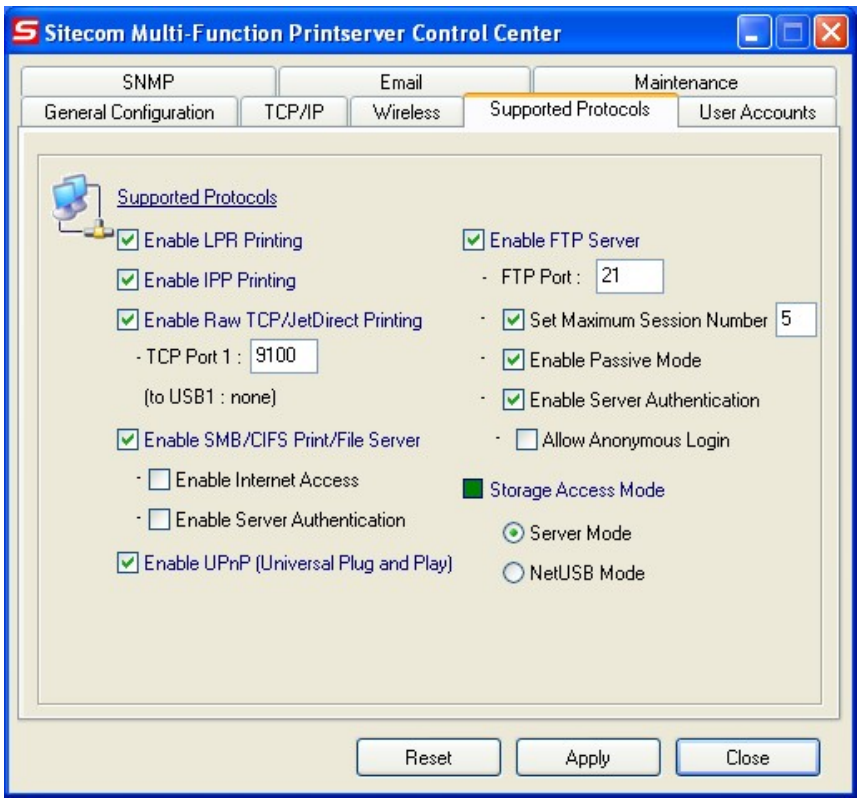
- ***SMB/CIFS Print/File Server:*** select or clear SMB/CIFS Print/File Server support. It is enabled in Factory Default
- ***Internet Access:*** select or clear Internet Access support. If you clear the item, you do not allow that users can access your SMB/CIFS server via Internet. If you select the item, you allow Internet users to access your storage using the SMB/CIFS protocol.
- ***Server Authentication:*** select or clear Server Authentication support. Select the item, if you want to share your storage or printer with user level security which requires user name and password to login. If you clear the item, your storage will be shared without security.

- ***UPnP (Universal Plug and Play):*** select or clear 'Enable UPnP support'. It is enabled in

Factory Default.

- ***FTP Server:*** select or clear FTP Server support. It is enabled in Factory Default and set some parameters as below :
- ***FTP Port:*** enter an integer number to set FTP server's TCP port (default: 21)
- **Maximum Session Number:** enter or clear Maximum Session Number support. You can limit the number of FTP sessions by selecting the support and enter an integer to set the allowable maximum session number. If you clear the support, it means that FTP server will have not any limitation in session number. (default :5)
- ***Set Passive Mode:*** select or clear Set Passive Mode support that FTP server can accept passive mode.
- ***Server Authentication:*** select or clear Enable Server Authentication support. If you select the support, you need to enter user name and password to login to the Server. If you clear the support, you do not need user name and password to enter the Server.
- ***Allow Anonymous Login:*** select the item, if you want to allow the user "anonymous" to login to your FTP server with Read-Only permission and FTP server will not check the password. If you clear the item, your FTP server will not support anonymous login function

- ***Storage Access Mode :*** select Server mode (default) or NetUSB mode. And set some parameters as below :
- ***Server Mode :*** In this mode, you can access the USB storage via FTP or SMB/CIFS protocols. Only FAT16/32 file format is supported in this mode. This is the default mode.
- ***NetUSB Mode:*** In this mode, you can access the USB storage using NetUSB technology. In this mode, FAT16/32 and NTFS file formats are supported, but only one user is allowed to access the storage at the same time. Please refer to <7. NetUSB mode> for the details.



8.3 User Accounts

- ***New Administrator****:* enter your desired administrator name.(default : admin)
- ***New Password****:* enter your desired password
- ***Retype Password****:* confirm your previous password typing.

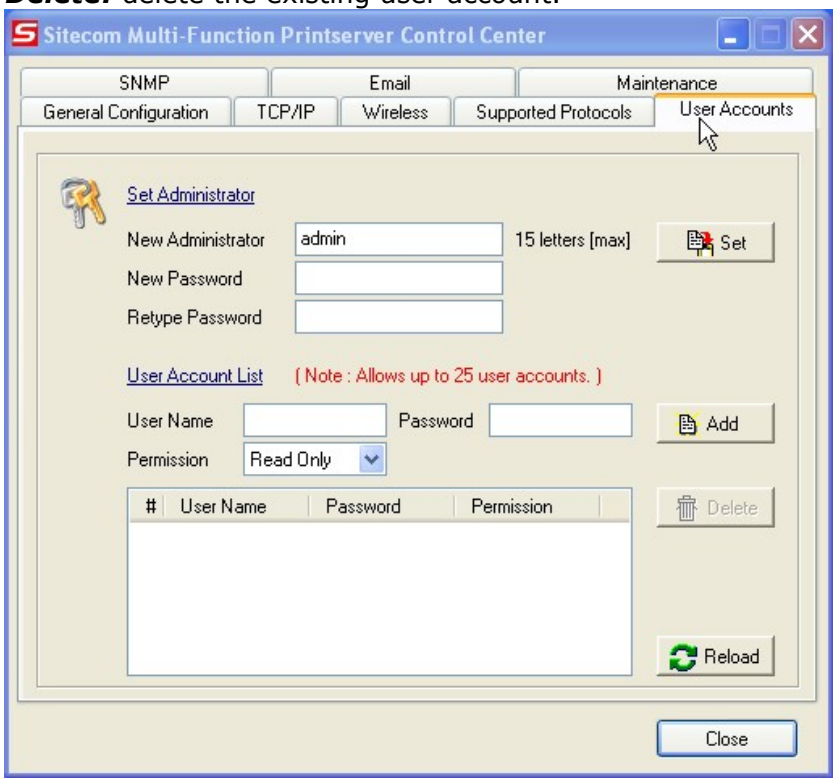
Then, please click the **Set** button to complete and save the new settings.

Note :

If you forgot the administrator username and password, you must perform Restore Factory Default action by plugging in the power adaptor while pressing the Init button. Please refer to the "10. Restore Factory Defaults".

- ***User name:*** add a new user account for accessing the storage attached to the Server.
- ***Password*****:** set a password for the added user.
- ***Permission*****:** select Read-Only or Read-Write permissions to access File servers.

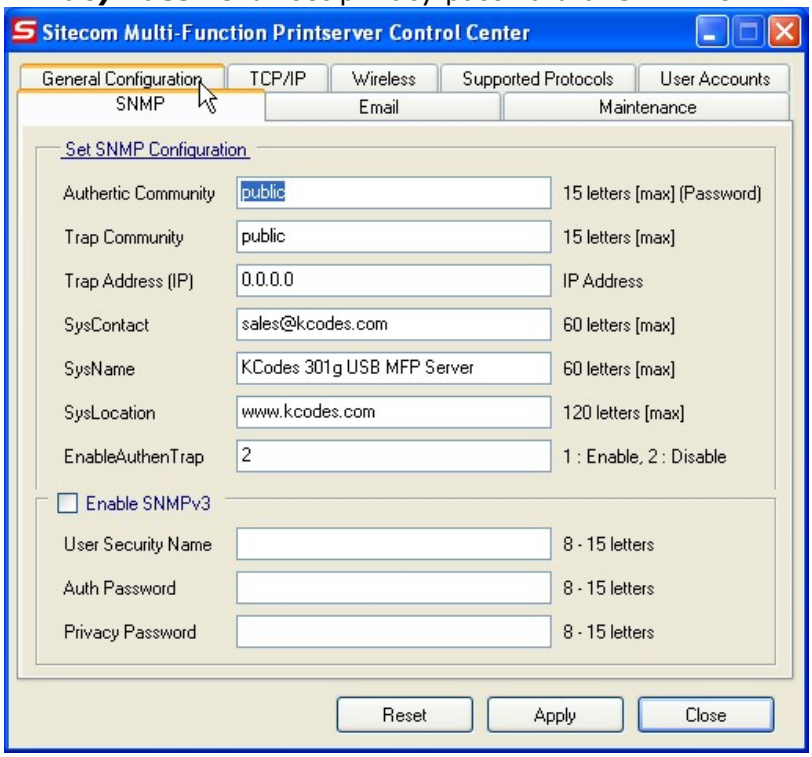
- ***Add:*** click the Add button, enter the user name and corresponding password, and Permission selection. The account will take effect once shown in the list below.
- ***Delete:*** delete the existing user account.



8.4 SNMP

- ***Authentic Community****:* set Community name of SNMP server*.*
- ***Trap Community:*** set Trap Community name for SNMP server to send trap packets.
- ***Trap Address:*** enter an IP address to send the Trap packet.
- ***SysContact****:* enter some letters for variable *SysContact* that represents the name of system contact.
- ***SysName:*** enter some letters for variable *SysName* that represents the name of system.
- ***SysLocation:*** enter some letters for variable *SysLocation* that represents the location of system.
- ***EnableAuthenTrap****:* enter 1 or 2 for the variable *EnableAuthenTrap* that represents to enable (1) or disable (2) to send Trap packets receiving the wrong Community name.

- ***SNMP V3:*** select or clear SnmpV3 support.
- ***User Security name:*** set user security name of SNMP v3
- ***Auth Password:*** set authentication password of SNMP v3.
- ***Privacy Password:*** set privacy password of SNMP v3

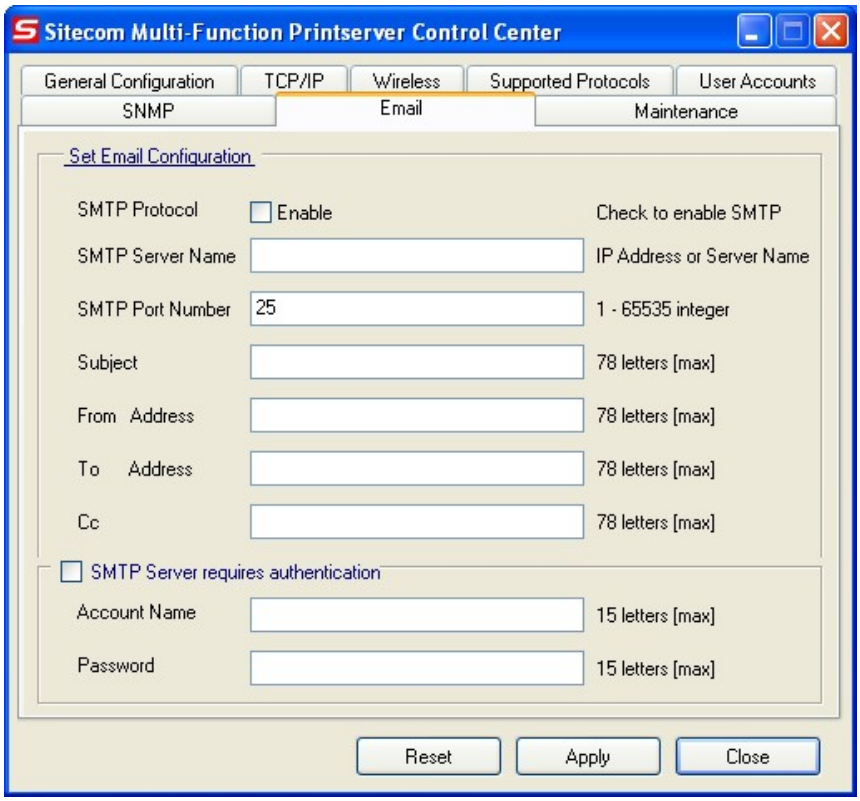


8.5 Email

If you want to receive alert mails from the Server, you have to enable SMTP Protocol, and set Email configuration. You can set new SMTP port number (default: 25)

- ***SMTP Protocol****:* select or clear SMTP support
- ***SMTP Server Name:*** enter your SMTP server's Host Name or IP address.
- ***SMTP Port Number:*** set new SMTP server's TCP port number (default: 25)
- ***Subject:*** enter the subject of the e-mail.
- ***From Address:*** enter the sender's e-mail address.
- ***To Address:*** enter the sender's e-mail address.
- ***Cc:*** stands for carbon copy; enter an e-mail address to send that mail to a second person.

- ***SMTP Server requires authentication:*** login to remote SMTP server which requires authentication.
- ***Account Name*****:** enter account name for remote SMTP server.
- ***Password*****:** enter account's password for remote SMTP server.



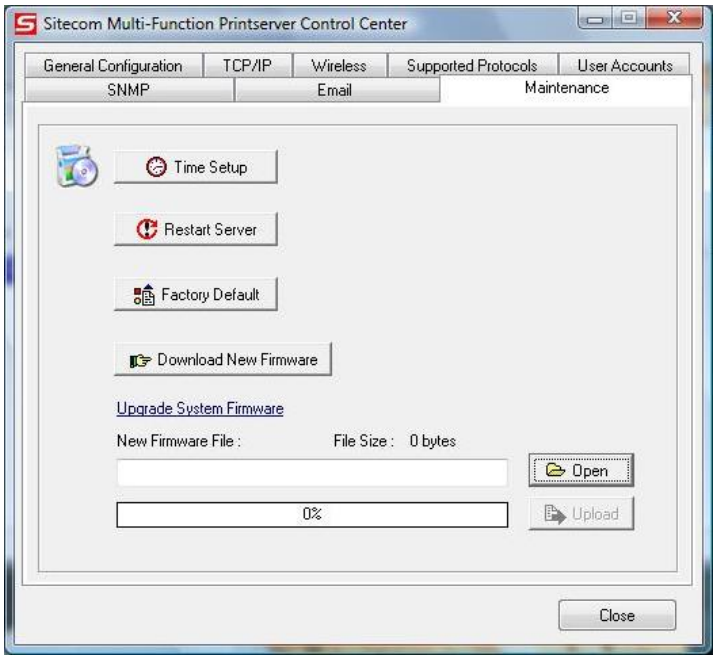
8.6 Maintenance

To restart the Server, restore the Server to factory defaults, download new firmware file from product's public website and upgrade new firmware.

- ***Time Setup:*** click this button, to configure the time-zone, and time-settings for the Server.
- ***Restart Server:*** click this button, the Server will restart
- ***Factory Default:*** click this button, the Server will restore factory default values.
- ***Download New Firmware:*** click this button to download new firmware or user software from our website http://www.sitecom.com.

- ***Upgrade Firmware :*** click **Open** and find the firmware file to be upgraded. Click **Upload** to start the firmware upgrade into the MFP Server.

Please check www.sitecom.com for up to date drivers & utilities, manuals and support



Note :

The Control Center doesn't really quit if you click the "X" box (close box) at the top right corner of the window. Instead, it just minimizes itself to the system tray. There are two ways to really close the Control Center. The first way is choosing "Exit" item in the "File" menu in the Control Center. The second way is right-clicking the icon of the Control Center in the system tray and choosing the "Exit" option.

9. The Server's Web Pages

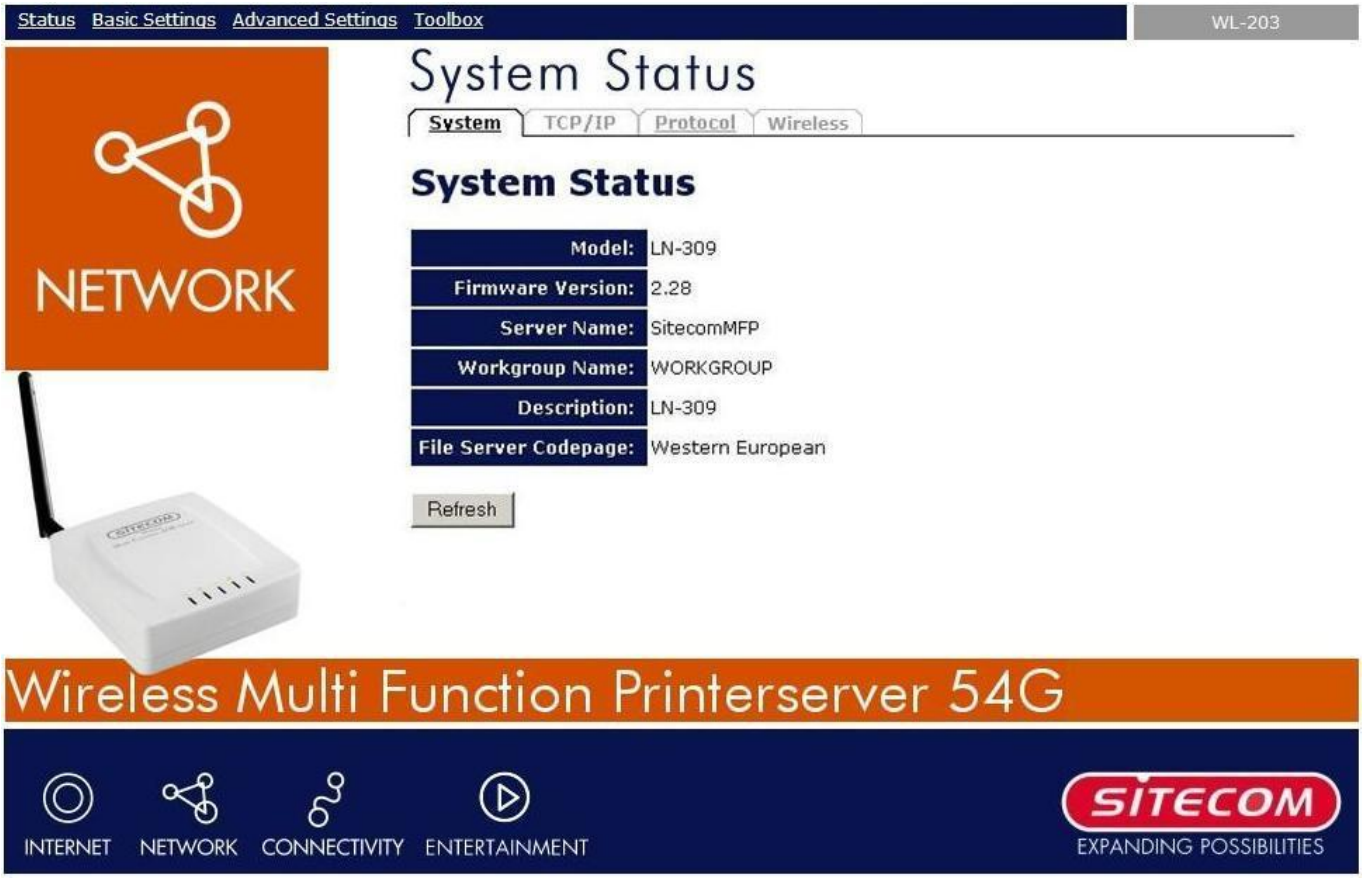
9.1 Introduction

By using the web pages to see the Server's system status and configure the Server.

9.2 Using the Server's Web Pages

9.2.1 Displaying Server Status

- In the Control Center, click the MFP server.
- Click the "Goto Homepage".
- Enter the administrator and password (default : admin/admin)
- Then, the System status of MPF server's information is shown.
- Information is including with System, TCPIP and Protocol status.



9.3 Basic Settings

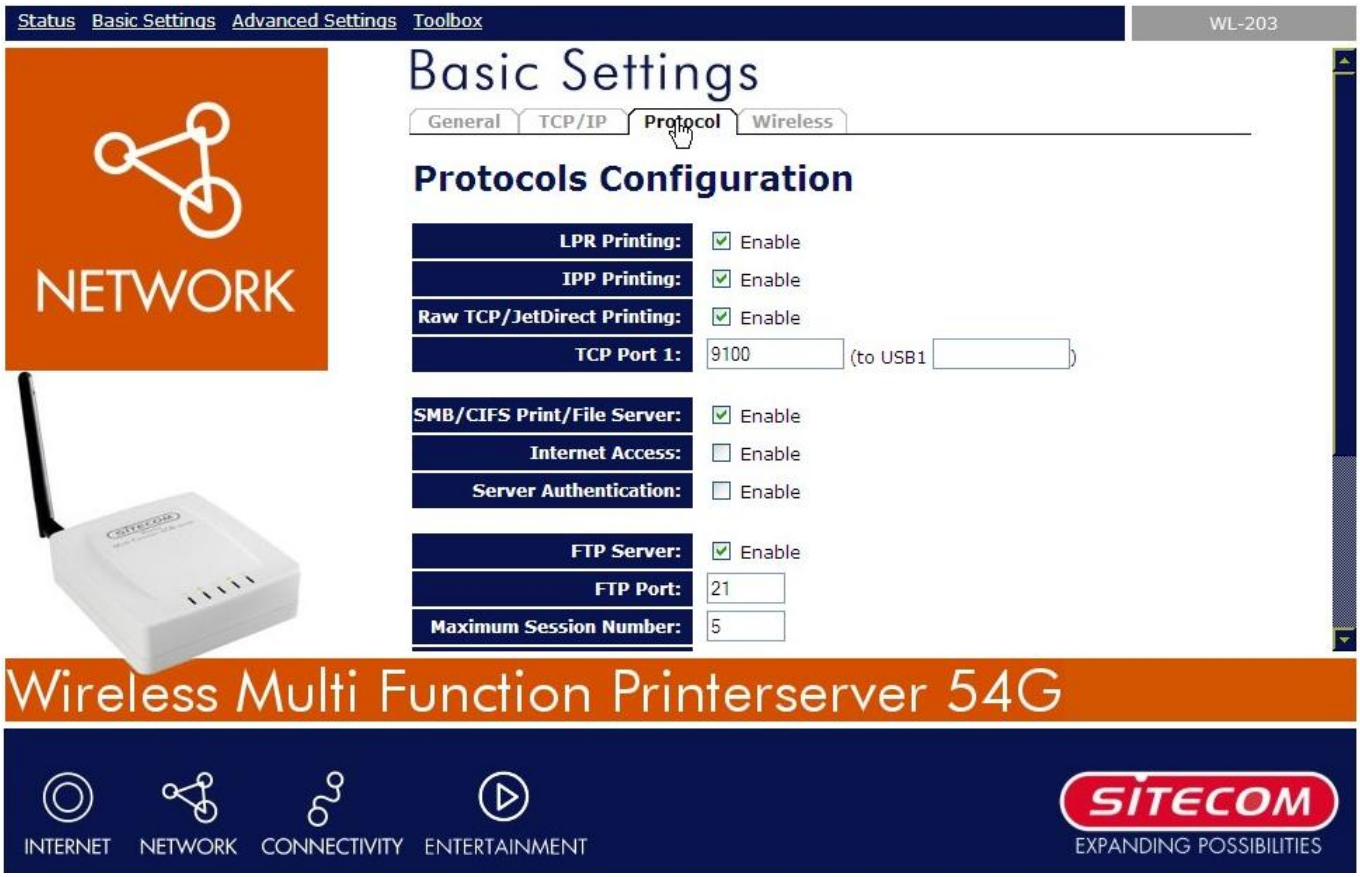
9.3.1 General Configuration

- ***Server Name****:* the name to represent the Server when using SMB protocol
- ***Workgroup****:* the name of the SMB workgroup that the Server belongs to.
- ***Description****:* optionally set to describe the Server.
- ***File Server Codepage****:* generally, the criteria of choosing codepage are based on your Windows codepage.

9.3.2 TCP/IP Configuration

To set the MFP server's TCP/IP configuration and connect TCP/IP network, please see < 4.2.5 Setting the IP address Using the Server's Web Pages > for details.

9.3.3 Protocols Configuration



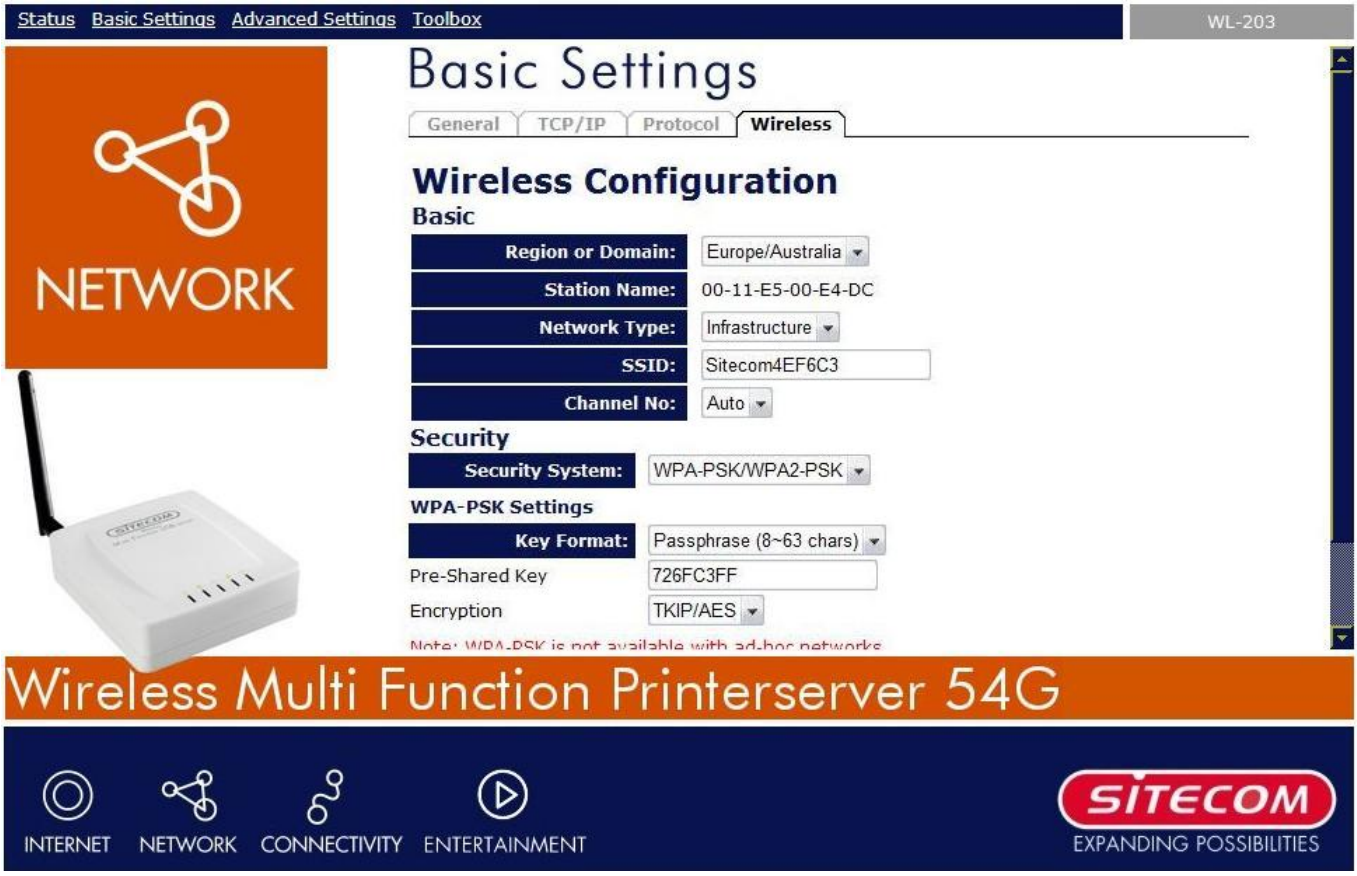
- ***LPR (Line Printer Remote) Printing****:* select or clear LPR Printing support. It is enabled in Factory Default***.***
- ***IPP Printing****:* select or clear IPP Printing support. It is enabled in Factory Default.
- ***Raw TCP/ Jet Direct Printing:*** select or clear Raw TCP / jet Direct Printing support. It is enabled in Factory Default and set some parameters as below :
- ***TCP Port :*** Set TCP port for the printer of USB1 port (default: 9100)
- ***TCP Port :*** Set TCP port for the printer of USB2 port (default: 9101)

- ***SMB/CIFS Print/File Server:*** select or clear SMB/CIFS Print/File Server support. It is enabled in Factory Default
- ***Internet Access:*** select or clear Enable Internet Access support. If you clear the item, you do not allow that users can access your SMB/CIFS server via Internet. If you select the item, you allow Internet users can access your storage using the SMB/CIFS protocol.
- ***Server Authentication:*** select or clear Server Authentication support. Select the item, if you want to share your storage or printer with user level security which requires user name and password to login. If you clear the item, your storage will be shared without security.

- ***FTP Server:*** select or clear FTP Server support. It is enabled in Factory Default and set some parameters as below :
- ***FTP Port:*** enter an integer number to set FTP server's TCP port (default: 21)
- **Maximum Session Number:** enter or clear Maximum Session Number support. You can limit the FTP session number by selecting the support and enter an integer to set the allowable maximum session number. If you clear the support, it means that FTP server will have not any limitation in session number. (default :5)
- ***Set Passive Mode:*** select or clear Set Passive Mode support that FTP server can accept passive mode.
- ***Server Authentication:*** select or clear Enable Server Authentication support. If you select the support, you need to enter user name and password to login to the Server. If you clear the support, you do not need user name and password to enter the Server.
- ***Allow Anonymous Login:*** select the item, if you want to allow the user "anonymous" to login to your FTP server with Read-Only permission and FTP server will not check the password. If you clear the item, your FTP server will not support anonymous login function

- ***UPnP (Universal Plug and Play):*** select or clear Enable UPnP support. It is enabled in Factory Default.
- ***Storage Access Mode :*** select Server mode (default) or NetUSB mode. And set some parameters as below :
- ***Server Mode :*** In this mode, you can access the USB storage via FTP or SMB/CIFS protocols. Only FAT16/32 file format is supported in this mode. This is the default mode.
- ***NetUSB Mode:*** In this mode, you can access the USB storage using NetUSB technology. In this mode, FAT16/32 and NTFS file formats are supported, but only one user is allowed to access the storage at the same time. Please refer to < 7. NetUSB mode > for the details.

9.3.4 Wireless Configuration



- ***Region or Domain**:* Select your region to configure the available wireless channels.
- ***Station Name**:* The BSSID or MAC-Address of the Wireless Multi Function Printserver.
- ***Network Type:*** Select Infrastructure when the printserver has to connect to a router or AccessPoint, select Ad-Hoc to connect to a client computer or Peer-to-Peer network.
- ***SSID:*** Choose the SSID of your network.
- ***Channel No:*** The channel used by your network.
- ***Security System:*** Select WEP or WPA encryption for your wireless network connection.
- ***WEP/WPA-PSK Settings:*** Enter the encryption information to connect to your network.

9.4 Advanced Settings

9.4.1 User

- ***Administrator**:* enter your desired administrator username.(default : admin)
- ***New Password**:* enter your desired password
- ***Retype Password**:* confirm your previous password typing.

Note :

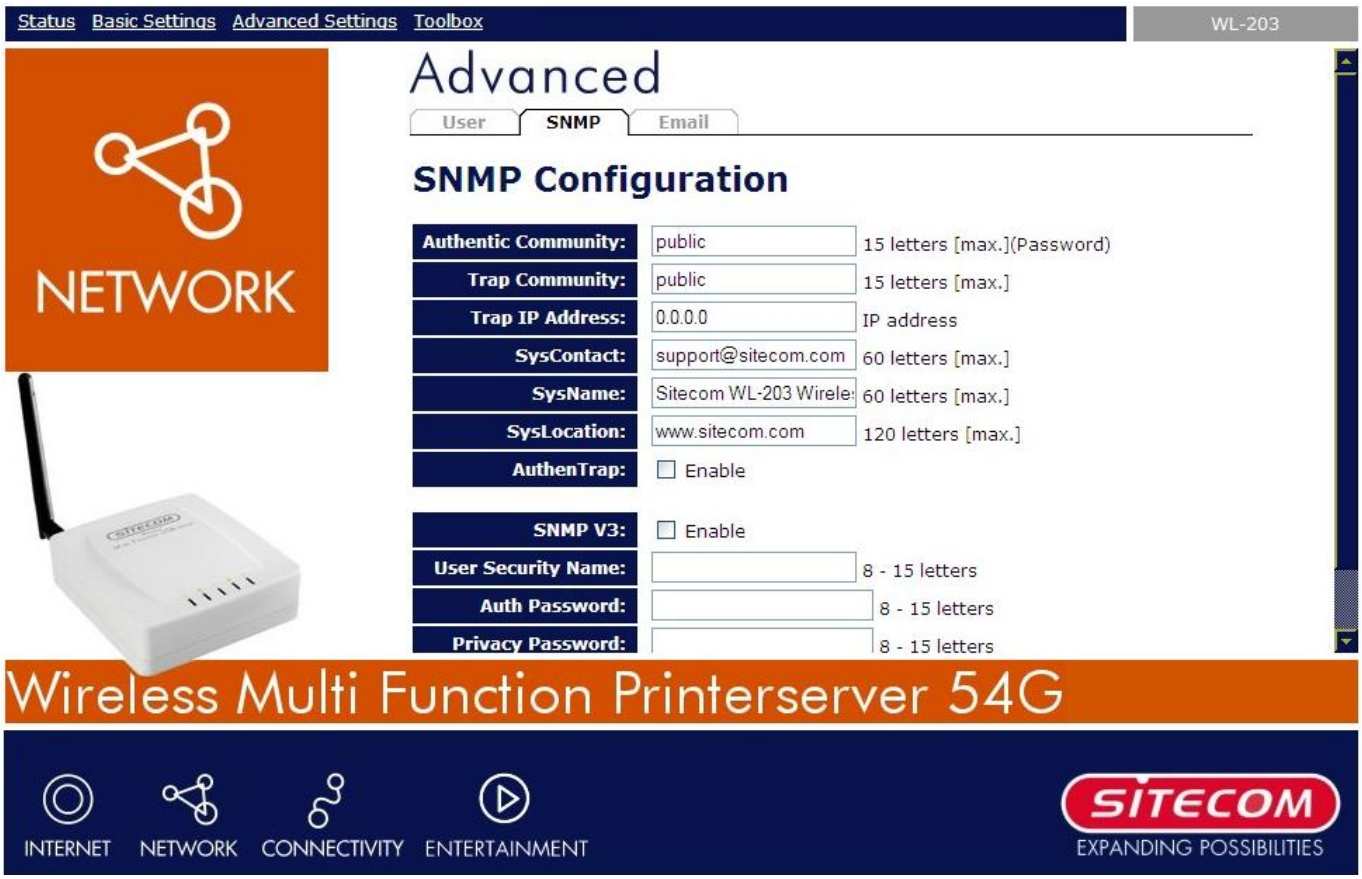
If you forgot administrator username and password, you must perform Restore Factory Default action by plugging in the power adaptor while pressing the Init button. Please refer to the "10. Restore Factory Defaults".

- ***User name:*** add a new user account for accessing the storage attached to the Server.
- ***Password*****:** set a password for added user.

- ***Permission*:** select Read-Only or Read-Write permission to access File servers.

- ***Add:*** click Add button, after entering the user name, corresponding password, and Permission selection. The account will take effect once shown in the blank below.
- ***Delete:*** delete the existing user account.

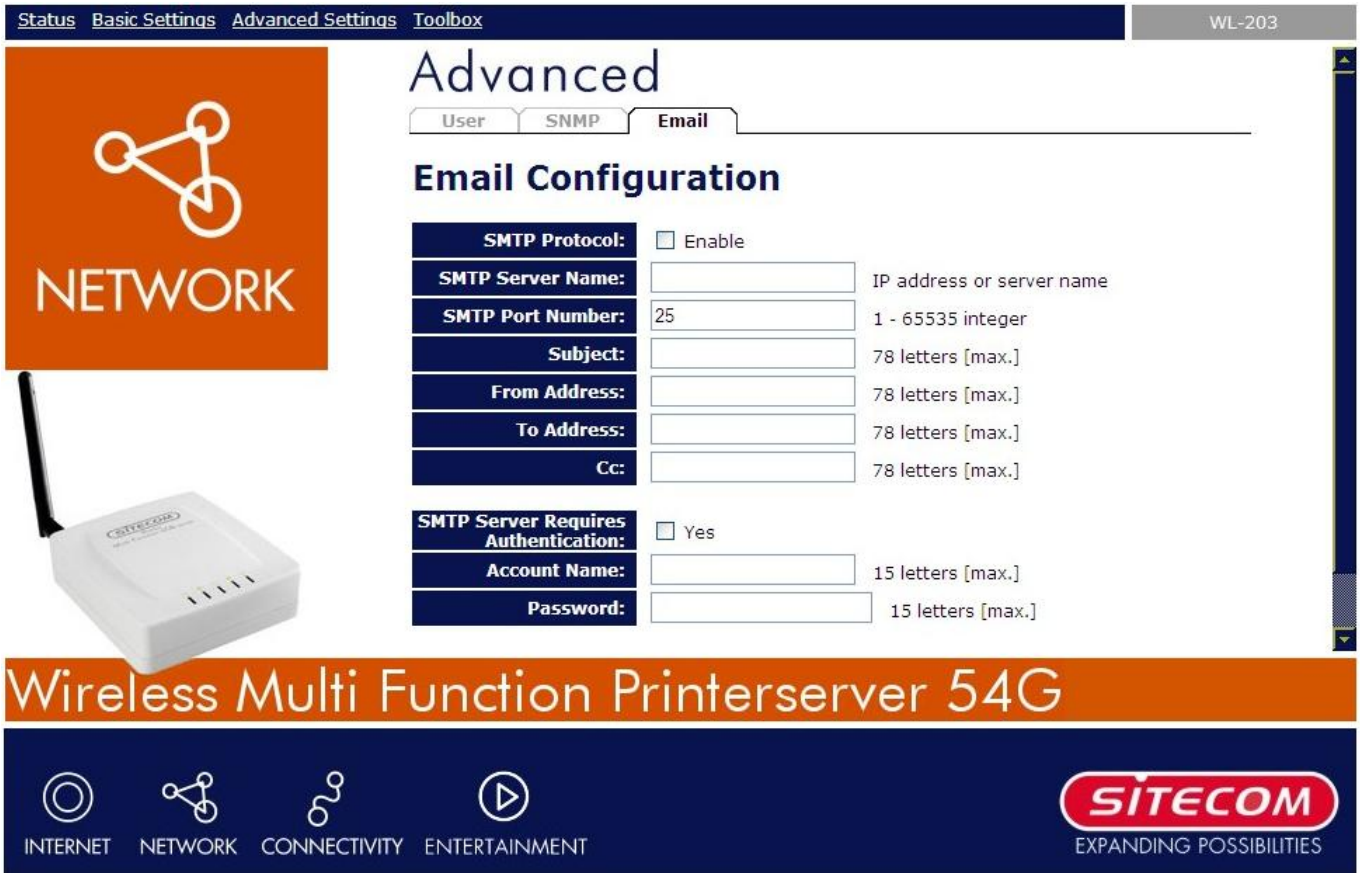
9.4.2 SNMP



- ***Authentic Community****:* set Community name of SNMP server*.*
- ***Trap Community:*** set Trap Community name for SNMP server to send trap packets.
- ***Trap Address:*** enter an IP address to send the Trap packet.
- ***SysContact****:* enter some letters for variable of *SysContact* that represents the name of system contact.
- ***SysName:*** enter some letters for variable of *SysName* that represents the name of system.
- ***SysLocation:*** enter some letters for variable of *SysLocation* that represents the location of system.
- ***AuthenTrap****:* To enable or disable to send Trap packets receiving the wrong Community name.

- ***SNMP V3:*** select or clear SnmpV3 support.
- ***User Security name:*** set user security name of SNMP v3
- ***Auth Password:*** set authentication password of SNMP v3.
- ***Privacy Password:*** set privacy password of SNMP v3

9.4.3 Email



If you want to receive alert mails from the Server, you have to enable SMTP Protocol, and set Email configuration. You can set new SMTP port number (default: 25)

- ***SMTP Protocol****:* select or clear SMTP support
- ***SMTP Server Name:*** enter your SMTP server's Host Name or IP address.
- ***SMTP Port Number:*** set new SMTP server's TCP port number (default: 25)
- ***Subject:*** enter the subject of the e-mail.
- ***From Address:*** enter the sender's e-mail address.
- ***Cc:*** stands for carbon copy; enter an e-mail address to send that mail to a second person.

- ***SMTP Server requires authentication:*** login to remote SMTP server which requires authentication.
- ***Account Name*****:** enter account name for remote SMTP server.
- ***Password*****:** enter account's password for remote SMTP server.

9.5 Toolbox

9.5.1 Firmware Upgrade

Click Browse to find the latest firmware file and do the firmware upgrade. Click **Upload** to start the firmware upgrade into the MFP Server.

9.5.2 Restart

Click the Apply button, the Server will be restarted.

9.5.3 Restore

Click the Apply button, the Server will restore factory default settings and then restart.

9.5.4 Time Setup

On this page, you can configure the correct Time-Zone, and select a NTP-server.
Click the Apply button to save the configuration.

Status Basic Settings Advanced Settings Toolbox
WL-203
NETWORK
Toolbox
Upgrade Restart Restore Time Setup
System Setup - Multi-Functional USB Server Time Setup
Current Time: Tue Apr 21 07:30:51 2009
You can use NTP to set the system time of the Multi-Functional USB server
NTP Server: time-nw.nist.gov
Time Zone: (GMT) Casablanca, Monrovia
Apply: Confirm the modification and save.
Cancel: Cancel the modification and reset the above settings to the original settings.
Apply Cancel
Wireless Multi Function Printerserver 54G
INTERNET NETWORK CONNECTIVITY ENTERTAINMENT
SITECOM
EXPANDING POSSIBILITIES

10. Restore Factory Defaults

10.1 Using the Control Center

- Start the Control Center.
- If the tool finds Servers in your local area network, then you have to select a Server from the Server List.
- Double click the highlighted option or click the **Configure Server** icon. Then enter the Server's administrator username (default: *admin*) and password (default: *admin*).
- After you have logged in successfully & select **Maintenance**. The **Maintenance** dialog appears.
- Click **Factory Default.**

10.2 Using the Server's Web Pages

- Go to the Server's web page or click the **Goto Homepage** under the control center.
- Enter administrator username (default: *admin*) and password (default: *admin*).
- Click **Toolbox** and the click **Restore**.
- A **Restore Factory Default Settings** screen is showing. And then click **Apply**.

10.3 Using Init Button

Note :

Before start to do the reset, please do **power off and on** the MFP device. It is easy to do by removing the power plug & plug-in the unit again.

- Press and hold the Init button
- As the same time, please remove the power adaptor plug and plug in again
- Release the Init button. At this moment, the LED indicator for the USB port blinks.
- After that, remove the power adaptor & plug in to restart the server. At this moment, the LED indicator will blink alternatively.

Finally, the Server will operate using the Factory Default values.

11. Upgrade Firmware

Note :

Before starting to upgrade the firmware, please do **power off and on** the MFP device. It is easy to do by removing the power plug & plugging-in the unit again.

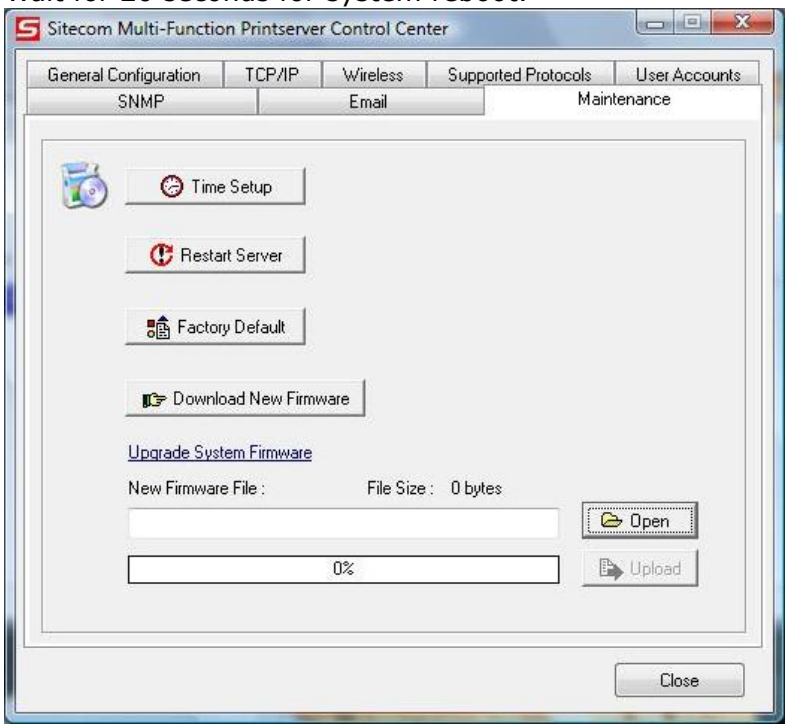
11.1 Using the Control Center

- Open Control Center. It will automatically search the existing Servers and display their status.

Note :

Before starting to search our MFP server, please ensure all the Firewall application software are off or unblock the Control center software under the Firewall software setting.

- Select the Server that you want to upgrade the firmware. Double click the selected Server and enter Administrator username (default: *admin*) and Password (default: *admin*).
- Select the **Maintenance** button.
- Click **Open** to find your new firmware file and click **Upload** to start upgrading the firmware.
- Wait for 20 seconds for system reboot.



Note :

After finish to upgrade the firmware, please do **power off and on** the MFP device again in order to make sure the MFP server is reset. And it is easy to do by removing the power plug & plug-in the unit again.

11.2 Using the Server's Web Pages

- Power on the Server. Suppose that the Server is in DHCP mode
- Check the Server's IP address.
- First, run Control Center. It will automatically search for Servers on the LAN. Then Servers' IP addresses will be shown in Control Center.
- Run any Web browser, like Microsoft Internet Explorer. Go to *"http://Server's IP address* "or *"http://Server's Host Name"* to access the Server's home page.
- Login to the Server's interface with Administrator username (default: *admin*) and Password (default: *admin*).
- Click **Toolbox** at the top of the menu.
- Select **Upgrade**

- Click the **Browse** button to choose the file of new firmware.
- Click the **Upload** button to start firmware upgrade.
- Wait for 15 seconds for system reboot.

11.3 Using the Init Button and the TFTP Client

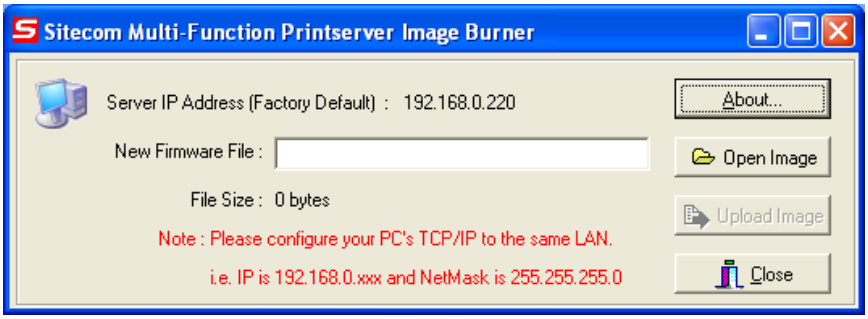
- Plug in the power adaptor while pressing the *Init button* until the LED indicators of Power and USB blink.

Note :

Please note that after that, the Server will operate using the factory default values after restarting, i.e., your Server's configuration will recover to Factory Default values.

- Start the TFTP client Tool: *Image Burner*
- Press Start -> All Programs -> Sitecom -> Multi-Function Printserver Control Center -> Image Burner.

- Enter the Server's Fallback IP address: 192.168.0.100 and click **Open Image** to open your new firmware. Please note that you must configure your PC's TCP/IP such that PC and the Server belong to the same LAN, i.e. PC's IP is 192.168.0.xxx and subnet mask is 255.255.255.0.


Sitecom Multi-Function Printserver Image Burner
Server IP Address (Factory Default) : 192.168.0.220
About...
New Firmware File :
Open Image
File Size : 0 bytes
Upload Image
Note : Please configure your PC's TCP/IP to the same LAN.
i.e. IP is 192.168.0.xxx and NetMask is 255.255.255.0
Close

- Click **Upload Image**.
- Wait for **Image Uploading** to finish and then click **Close**.
- Plug-off the power adapter and then plug-in the power adapter to restart the Server.

12. The Init Button

The Init button is used for maintenance:

Simultaneously press the **Init** button and turn on (by plugging in the power adaptor) the Server until the USB1 and USB2 LED indicators simultaneously blink. After that, the Server will do the following tasks:

- Perform a Factory Default of the MFP server, which will restore most of the parameters and settings to factory default values,
- Start a TFTP server. You can upgrade new firmware using any TFTP client tool.

Note :

After performing the tasks mentioned above, you have to **unplug the power adaptor and then plug in the power adaptor** to restart the Server.